

# SHARP SERVICE MANUAL



## SUPPLEMENT

No. S59Z5LC32D77C

## LCD COLOUR TELEVISION

### LC-32DH77E/RU/S

### LC-42DH77E/RU/S

### MODELS LC-46DH77E/RU/S

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

## OUTLINE

This Service Manual covers the differences from LC-32DH77E/RU/S, LC-42/46DH77E/RU/S/V. For other technical information, refer to the LC-32DH77E/RU/S (No. S19V4LC32D77E) Service Manual and LC-42/46DH77E/RU/S/V (No. S19W3LC42DH77) Service Manual.

For LED Unit and KEY Unit, refer to the Service Manual for LC-52DH77E/RU/S (No. S49Z2LC52DH77E).

The previous models and the new model can be identified with the following markings.

- The C character is added at the end of the model name on the model label.
- The C character is also added at the end of the model name on the number label (barcode label) of the packing case.
- The serial product numbers are 90511112 (LC-32DH77E/RU/S), 90511112 (LC-42DH77E/RU/S), 90611112 (LC-46DH77E/RU/S) and on.

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### Parts Guide

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

## OUTLINE AND LIST OF CHANGED PARTS

### OUTLINE

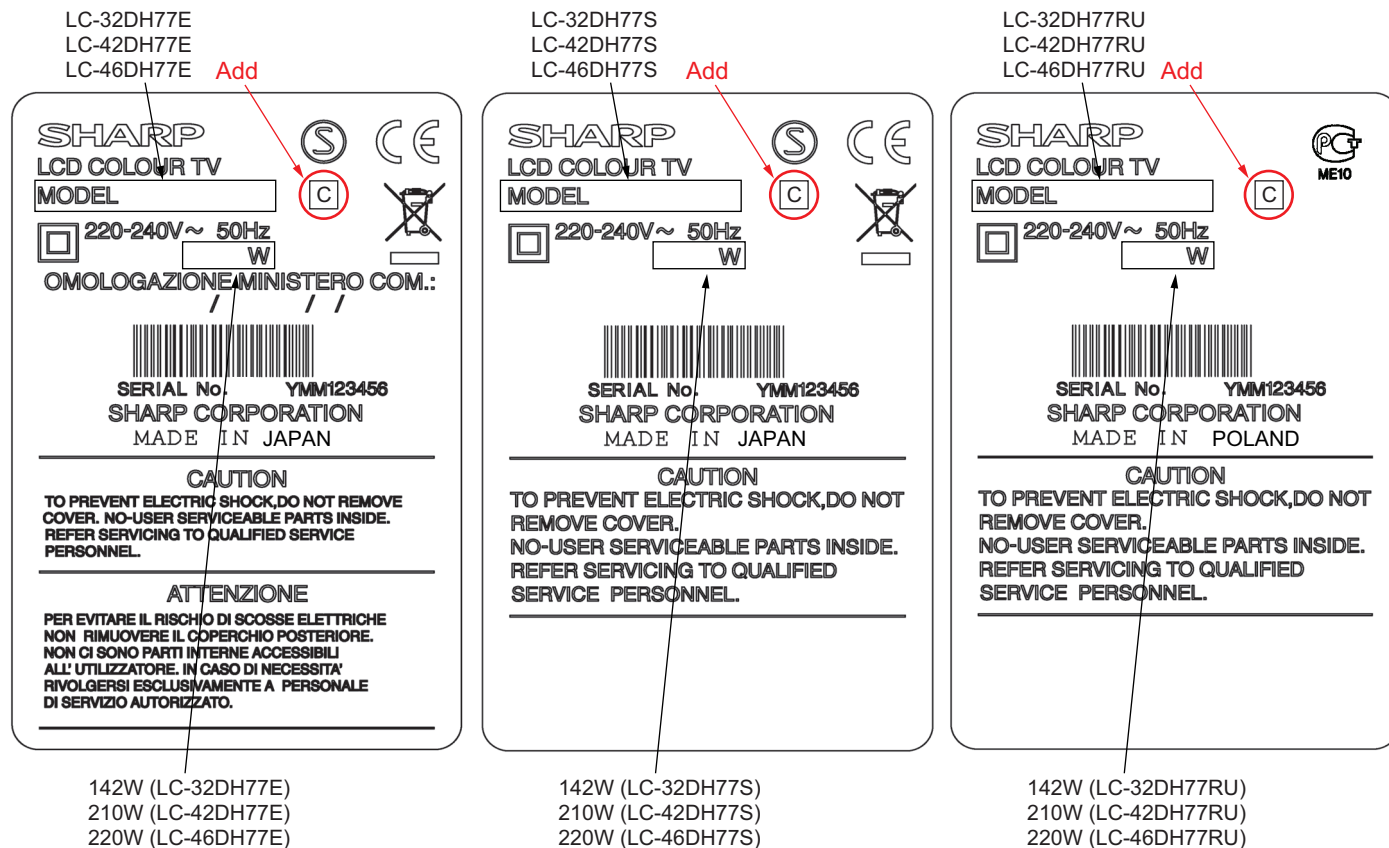
This Service Manual covers the differences from LC-32DH77E/RU/S, LC-42/46DH77E/RU/S/V. For other technical information, refer to the LC-32DH77E/RU/S (No. S19V4LC32D77E) Service Manual and LC-42/46DH77E/RU/S/V (No. S19W3LC42DH77) Service Manual.

For LED Unit and KEY Unit, refer to the Service Manual for LC-52DH77E/RU/S (No. S49Z2LC52DH77E).

The previous models and the new model can be identified with the following markings.

- The C character is added at the end of the model name on the model label.
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#### Models with the redesigned LCD panel module



**LIST OF CHANGED PARTS (LC-32DH77E/RU/S)**

Ref No.	DESCRIPTION	LC-32DH77E/RU/S (Base Models)	LC-32DH77E/RU/S (This Model)	Note
PRINTED WIRING BOARD ASSEMBLIES				
	MAIN Unit	DUNTKE685FM20	DUNTKF190FM01	Changed
	LED Unit	DUNTKF096FM02	DUNTKF096FM04	Changed (refer to the LC-52DH77E/RU/S)
	POWER/INVERTER Unit (Unit Replacement Item)	RUNTKA456WJQZ	←	No Changed
LCD PANEL				
	32" LCD Panel Module	R1LK315D3LW50Y	R1LK315D3LW40Y	Changed
CABINET AND MECHANICAL PARTS				
Please refer to a parts list				
LCD PANEL MODULE Assembly				
Please refer to a parts list				

**LIST OF CHANGED PARTS (LC-42DH77E/RU/S)**

Ref No.	DESCRIPTION	LC-42DH77E/RU/S/V (Base Models)	LC-42DH77E/RU/S (This Model)	Note
PRINTED WIRING BOARD ASSEMBLIES				
	MAIN Unit (Not tuner unit)	DUNTKE685FM24	DUNTKF190FM01	Changed
	LED Unit	DUNTKF096FM02	DUNTKF096FM04	Changed (refer to the LC-52DH77E/RU/S)
	KEY Unit	DUNTKE266FM01	DUNTKE266FM17	Changed (refer to the LC-52DH77E/RU/S)
	POWER Unit (Unit Replacement Item)	RDENCA322WJQZ	←	No Changed
	INVERTER Unit (Unit Replacement Item)	RUNTKA534WJZZ	←	No Changed
	Tuner unit	RTUDAA019WJQZ	←	No Changed
LCD PANEL				
	42" LCD Panel Module	R1LK420D3LW80Y	←	No Changed
CABINET AND MECHANICAL PARTS				
Please refer to a parts list				
LCD PANEL MODULE Assembly				
Please refer to a parts list				

**LIST OF CHANGED PARTS (LC-46DH77E/RU/S)**

Ref No.	DESCRIPTION	LC-46DH77E/RU/S/V (Base Models)	LC-46DH77E/RU/S (This Model)	Note
PRINTED WIRING BOARD ASSEMBLIES				
	MAIN Unit (Not tuner unit)	DUNTKE685FM39	DUNTKF190FM01	Changed
	LED Unit	DUNTKF096FM02	DUNTKF096FM04	Changed (refer to the LC-52DH77E/RU/S)
	KEY Unit	DUNTKE266FM01	DUNTKE266FM17	Changed (refer to the LC-52DH77E/RU/S)
	POWER Unit (Unit Replacement Item)	RDENCA308WJQZ	←	No Changed
	INVERTER (1) Unit (Unit Replacement Item)	RUNTKA538WJZZ	←	No Changed
	INVERTER (2) Unit (Unit Replacement Item)	RUNTKA539WJZZ	←	No Changed
	Tuner Unit	RTUDAA019WJQZ	←	No Changed
LCD PANEL				
	46" LCD Panel Module	R1LK460D3LW8AY	R1LK460D3LW80Y	Changed
CABINET AND MECHANICAL PARTS				
Please refer to a parts list				
LCD PANEL MODULE Assembly				
Please refer to a parts list				

**SAFETY PRECAUTION****IMPORTANT SERVICE SAFETY PRECAUTION**

- **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

**■ WARNING**

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

**CAUTION:**  
FOR CONTINUED PROTECTION AGAINST A  
RISK OF FIRE REPLACE ONLY WITH SAME  
TYPE FUSE.

F7000, F7001 (4A/250V)

**■ BEFORE RETURNING THE RECEIVER  
(Fire & Shock Hazard)**

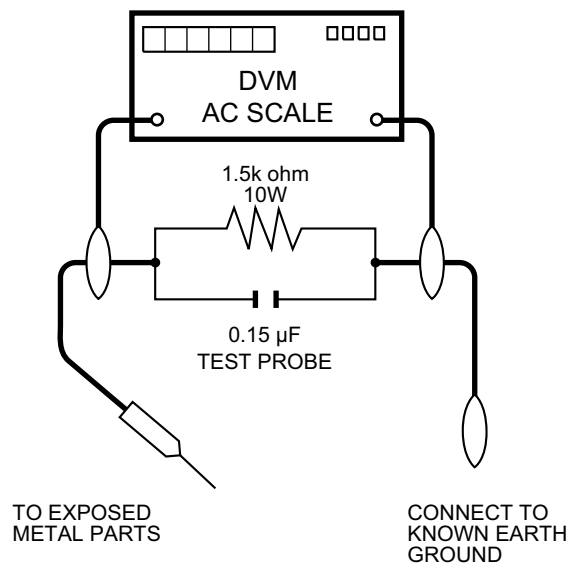
**Before returning the receiver to the user, perform the following safety checks:**

3. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
4. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
5. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 220~240 volt AC outlet.
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 1.05 V peak (this corresponds to 0.7 mA peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.

**SAFETY NOTICE**

Many electrical and mechanical parts in LCD color television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts List and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.



## Precautions for using lead-free solder

### ■Employing lead-free solder

- “PWBs” of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

**LF**a

Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

**LF**a/a

Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

### ■Using lead-free wire solder

- When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

### ■Soldering

- As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

- Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	φ0.3mm 250g (1roll)	BL
ZHNDAi126500E	J	φ0.6mm 500g (1roll)	BK
ZHNDAi12801KE	J	φ1.0mm 1kg (1roll)	BM

## End of life disposal



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

### A. Information on Disposal for Users (private households)

#### 1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge\*. In some countries\* your local retailer may also take back your old product free of charge if you purchase a similar new one.

\*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

#### 2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of [www.swico.ch](http://www.swico.ch) or [www.sens.ch](http://www.sens.ch).

### B. Information on Disposal for Business Users

#### 1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

#### 2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.



**Pb**

The battery supplied with this product contains traces of Lead.

For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation. Please contact your local authority for details on the collection and recycling schemes.

For Switzerland: The used battery is to be returned to the selling point.

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

# CHAPTER 1. OPERATION MANUAL

## [1] SPECIFICATIONS

Item			32" LCD COLOUR TV, Model: LC-32DH77E, LC-32DH77RU, LC-32DH77S	42" LCD COLOUR TV, Model: LC-42DH77E, LC-42DH77RU, LC-42DH77S	46" LCD COLOUR TV, Model: LC-46DH77E, LC-46DH77RU, LC-46DH77S
LCD panel			32" Advanced Super View & BLACK TFT LCD	42" Advanced Super View & BLACK TFT LCD	46" Advanced Super View & BLACK TFT LCD
Resolution			2,073,600 pixels (1,920 × 1,080)		
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV Function	TV-Standard	Analogue	CCIR (B/G, I, D/K, L/L')		
		Digital	DVB-T (2K/8K OFDM)		
	Receiving Channel	VHF/UHF	E2–E69 ch, F2–F10 ch, I21–I69 ch, IR A–IR J ch (Digital: IR A ch–E69 ch)		
		CATV	Hyper-band, S1–S41 ch		
	TV-Tuning System		Auto Preset 999 ch: non-Nordic / 9999 ch: Nordic (ATV: 99 ch), Auto Label, Auto Sort		
	STEREO/BILINGUAL		NICAM/A2		
Brightness			450 cd/m²		
Viewing angles			H: 176°, V: 176°		
Audio amplifier			10 W × 2		
Speaker			(40 mm × 110 mm) × 2		
Terminals	Antenna		UHF/VHF 75 Ω Din type (Analogue & Digital)		
	RS-232C		D-Sub 9 pin male connector		
	EXT1		SCART (AV input, Y/C input, RGB input, TV output)		
	EXT2		SCART (AV input/monitor output, Y/C input, AV Link)		
	EXT3		COMPONENT IN: Y/P <sub>B</sub> (C <sub>B</sub> )/P <sub>R</sub> (C <sub>R</sub> ), RCA pin (AUDIO R/L)		
	EXT4		15 pin mini D-sub, Ø 3.5 mm jack*		
	HDMI1 (EXT5)		HDMI		
	HDMI2 (EXT6)		HDMI, Ø 3.5 mm jack*		
	HDMI3 (EXT7)		HDMI		
	EXT8		RCA pin (AV input)		
	USB		USB		
	DIGITAL AUDIO OUTPUT		Optical S/PDIF Digital audio output		
	C. I. (Common Interface)		EN50221, R206001		
	OUTPUT		RCA pin (AUDIO R/L)		
Headphones		Ø 3.5 mm jack (Audio output)			
OSD language			Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish, Turkish, Ukrainian		
Power Requirement			AC 220–240 V, 50 Hz		
Power Consumption (Method IEC62087)			142 W (0.5 W Standby)	210 W (0.3 W Standby)	220 W (0.2 W Standby)
Weight			12.0 kg (Without stand), 13.5 kg (With stand)	16.0 kg (Without stand), 19.7 kg (With stand)	19.0 kg (Without stand), 22.5 kg (With stand)
Operating temperature			0 °C to +40 °C		

\* The HDMI2 and EXT4 terminals can both use the same audio input terminal.

- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### NOTE

- Refer to the inside back cover for dimensional drawings.

## Optional accessory

The listed optional accessories are available for this LCD colour TV. Please purchase them at your nearest shop.

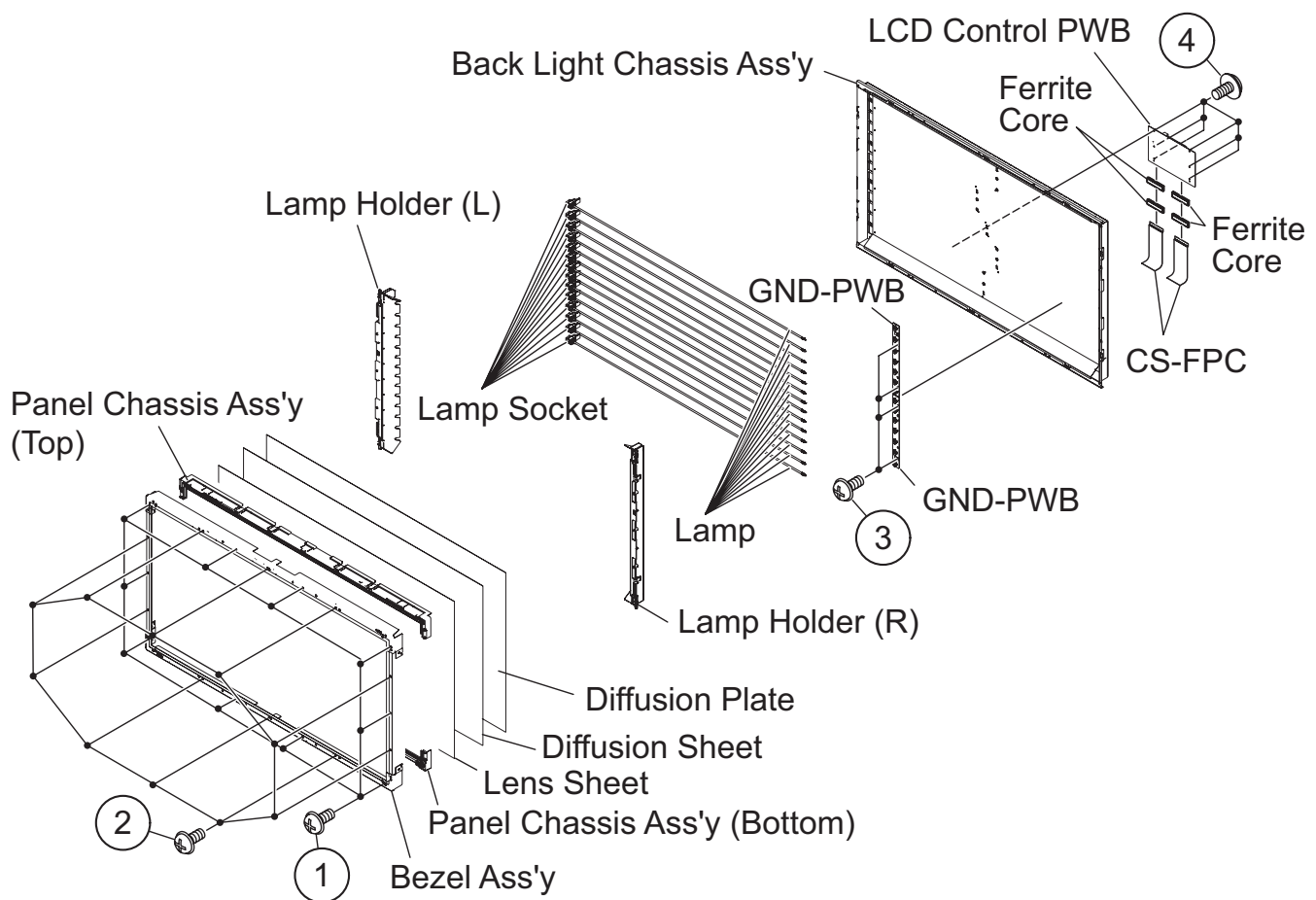
- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

No.	Part name	Part number
1	Wall mount bracket (LC-32DH77E, LC-32DH77RU, LC-32DH77S)	AN-37AG5
2	Wall mount bracket (LC-42DH77E, LC-42DH77RU, LC-42DH77S, LC-46DH77E, LC-46DH77RU, LC-46DH77S)	AN-52AG4

## CHAPTER 2. REMOVING OF MAJOR PARTS (LC-32DH77E/RU/S ONLY)

### [1] REMOVING OF MAJOR PARTS

1. Remove the 10 lock screws ① and 10 lock screws ②.
2. Detach the Lens Sheet, Diffusion Sheet and Diffusion Plate.
3. Detach the Back Light Chassis Ass'y, Lamp Holder (L), Lamp holder (R) and Lamps.
4. Remove the 4 lock screws ③ and detach the GND-PWBs.
5. Detach the 2 CS-FPCs and 4 Ferrite Cores.
6. Remove the 6 lock screws ④ and detach the LCD Control PWB.



## CHAPTER 3. ADJUSTMENT PROCEDURE

### [1] ADJUSTMENT PROCEDURE

#### 1. Adjustment method after PWB and/or IC replacement due to repair

The unit is set to the optimum at the time of shipment from the factory. If any value should become improper or any adjustment is necessary due to the part replacement, make an adjustment according to the following procedure.

1. Procure the following units in order to replace the main unit, IC3302.

MAIN UNIT: DUNTKF190FM01

NOTE: [Caution when replacing ICs in the main unit (IC501, IC1504, IC2002)]

The above ICs are EEPROMs storing the EDID data of PC, HDMI and Monitor microcomputer.

Before replacing the relevant part, procure the following parts in which the data have been rewritten.

IC501	RH-iXC697WJQZS	PC
IC2002	RH-iXC786WJN1Q	Monitor microcomputer

2. After replacing the LCD panel or LCD control UNIT, check PANEL\_SIZE in the following procedure.

- 1) Enter the process adjustment mode in AVC.
- 2) Use the cursor keys (  $\swarrow$  /  $\searrow$  ) and P keys (  $\swarrow$  /  $\searrow$  ) of R/C to select the item [PANEL\_SIZE] on the page 16/16.
- 3) Verify that the panel size is displayed.
- 4) If the size doesn't match, select the values of the panel size with the VOL (+/-) keys.
- 5) After selection in Step 4), press the OK key, and it is completed with OK displayed.

3. After replacing the LCD panel or LCD control PWB, adjust the VCOM in the following procedure.

- 1) Enter the process adjustment mode.
- 2) Use the cursor keys (  $\swarrow$  /  $\searrow$  ) and P (  $\swarrow$  /  $\searrow$  ) of R/C to select the item [VCOM ADJ] on the page 10/16.
- 3) Press the OK key to verify that the adjustment pattern is displayed.
- 4) Use the +/- keys of VOL of R/C to adjust the flicker in the center of the screen to minimum.
- 5) When the optimal state is achieved in Step 4, press the OK key to turn the pattern to OFF.

#### 2. Entering and exiting the adjustment process mode

1. Unplug the AC power cord of running TV set to force off the power.
2. While holding down the "VOL (-)" and "INPUT" keys on the set at once, plug in the AC power cord to turn on the power.

The letter "K" appears on the screen.

3. Next, hold down the "VOL (-)" and "P (  $\searrow$  )" keys on the set at once.

Multiple lines of blue characters appearing on the screen indicate that the set is now in the adjustment Process mode.

If you fail to enter the adjustment process mode (the display is the same as normal startup), retry the procedure.

4. To exit the adjustment process mode after the adjustment is done, unplug the AC power cord to force off the power. (When the power is turned off with the remote controller, once unplug the AC power cord and plug it in again. In this case, wait 10 seconds or so before plugging.)

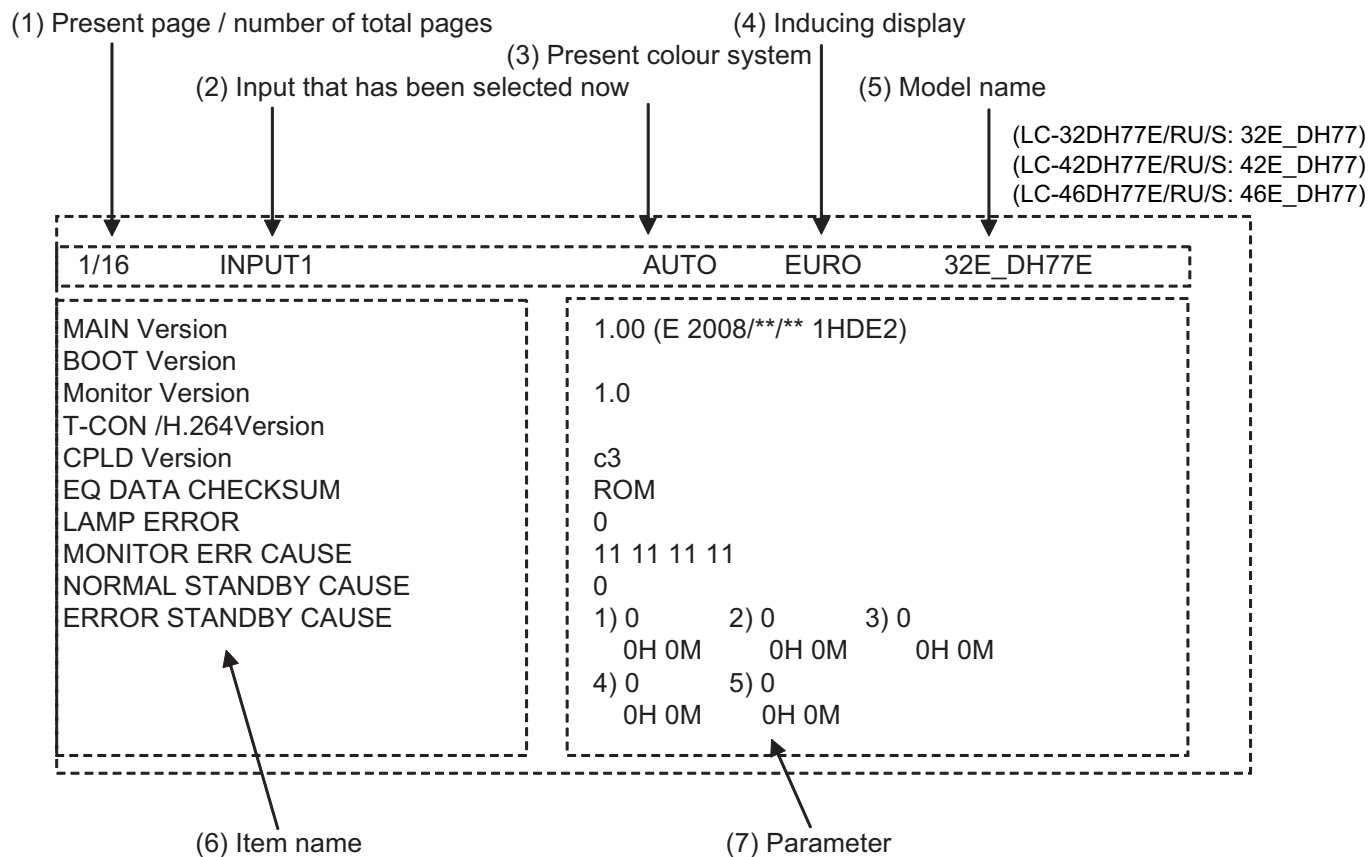
**CAUTION:** Use due care in handling the information described here lest the users should know how to enter the adjustment process mode.  
If the settings are tampered with in this mode, unrecoverable system damage may result.

#### 3. Remote controller key operation and description of display in adjustment process mode.

1. key operation

Remote controller key	Main unit key	Function
P ( $\swarrow$ / $\searrow$ )	P ( $\swarrow$ / $\searrow$ )	Moving an item (line) by one (UP/DOWN)
VOL (+/-)	VOL (+/-)	Changing a selected item setting (+1/-1)
Cursor ( $\swarrow$ / $\searrow$ )	—	Turning a page (PREVIOUS/NEXT)
Cursor (</>)	—	Changing a selected line setting (+10/-10)
INPUT	INPUT	Input source switching (toggle switching) (TV→EXT1~8)
OK	—	Executing a function
RETURN	—	Returning to a present page

Input mode is switched automatically when relevant adjustment is started so far as the necessary input signal is available.

**4. Description of display**

No.	Description	Display specification
(1)	Present page/number of total pages	2char/2char Decimal Number mark.
(2)	Input that has been selected now	TUNER/DTV/INPUT1/INPUT2/INPUT3/INPUT5/INPUT6/INPUT7/INPUT8
(3)	Present colour system	NTSC/PAL/SECAM/COMP15K/COMP33K/COMP45K/COMP28K/COMP31K
(4)	Inducing display	EUROPE/RUSSIA/SWEDEN
(5)	Model name	MODEL NAME
(6)	Item name	Max. 30 char
(7)	Parameter	Max. 60 char

## 5. Adjustment process mode menu

The character string in brackets [ ] will appear as a page title in the adjustment process menu header.

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
1/16		[INFO]		
	1	MAIN Version		Main software version
	2	BOOT Version		BOOT Version.
	3	Monitor Version		Monitor software version
	4	T-CON/H.264 Version		T-CON/H.264 Version
	5	CPLD Version		CPLD Version.
	6	EQ DATA CHECKSUM		Audio data checksum.
	7	LAMP ERROR		Number of termination due to lamp error.
	8	MONITOR ERR CAUSE		Last error standby cause.
	9	NORMAL STANDBY CAUSE		Situation that became standby at the end. (Excluding the error)
	10	ERROR STANDBY CAUSE	[1] 0 0H 0M	Error standby cause Total operating time before error.
			[2] 0 0H 0M	
			[3] 0 0H 0M	
			[4] 0 0H 0M	
			[5] 0 0H 0M	
2/16		[INIT]		
	1	INDUSTRY INIT	Enter	Initialization to factory settings execution.
	2	INDUSTRY INIT (-Hotel)	OFF	Initialization to factory settings execution. (Hotel mode is excluded)
	3	HOTEL MODE	OFF	Hotel mode ON/OFF setting
	4	Center Acutime	5H 0M	Main operating hours.
	5	RESET	OFF	Main operating hours reset.
	6	Backlight Acutime	19H 35M	Backlight operating hours.
	7	RESET	OFF	Backlight operating hours reset.
	8	LAMP ERROR RESET	OFF	Lamp error reset.
	9	ADJ PARAM SET	Enter	ADJ PARAM SET
	10	VIC XPOS	0	X-coordinate setting for VIC READ
	11	VIC YPOS	0	Y-coordinate setting for VIC READ
	12	VIC SIGNAL TYPE	MAIN	Signal type setting for VIC READ
	13	VIC READ	OFF	Picture level acquisition function (Level appears in green on the upper right)
3/16		[TUNER ADJ]		
	1	RF AGC ADJ	Enter	RF-AGC auto adjustment execution
	2	TUNER ADJ	Enter	TUNER auto adjustment execution
	3	PAL+TUNER ADJ	Enter	PAL TUNER auto adjustment execution
	4	RF AGC ADJ (CA-8CH)	Enter	RF-AGC auto adjustment execution (CA-8CH)
	5	TUNER ADJ (CA-8CH)	Enter	TUNER auto adjustment execution (CA-8CH)
	6	PAL+TUNER ADJ (CA-8CH)	Enter	PAL TUNER auto adjustment execution (CA-8CH)
	7	RF AGC	16	RF AGC adjustment
	8	TUNER CONTRAST A_GAIN	14	TUNER signal level adjustment
	9	TUNER CONTRAST B_GAIN	2048	TUNER signal level adjustment
	10	TUNER CONTRAST OFFSET	256	TUNER signal level adjustment
	11	RF AGC READ	OFF	Reading value of RF-AGC voltage
4/16		[PAL MAIN]		
	1	PAL ADJ	Enter	PAL adjustment
	2	SECAM ADJ	Enter	SECAM adjustment
	3	N358 ADJ	Enter	N358 adjustment
	4	PAL CONTRAST A_GAIN	14	PAL contrast adjustment
	5	PAL CONTRAST D_GAIN	2048	PAL contrast adjustment
	6	PAL CONTRAST OFFSET	256	PAL contrast adjustment
	7	SECAM CONTRAST A_GAIN	14	SECAM contrast adjustment
	8	SECAM CONTRAST D_GAIN	2048	SECAM contrast adjustment
	9	SECAM CONTRAST OFFSET	256	SECAM contrast adjustment
	10	N358 CONTRAST A_GAIN	14	N358 contrast adjustment
	11	N358 CONTRAST D_GAIN	2048	N358 contrast adjustment
	12	N358 CONTRAST OFFSET	256	N358 contrast adjustment
5/16		[CEC TEST]		
	1	HDMI CEC TEST	Enter	HDMI CEC test
	2	INSPECT USB TERM	Enter	Reading inspection of USB memory terminal
	3	HDMI EDID WRITE	Enter	HDMI EDID WRITING
	4	MONIDATA READ [TEMP/OPC]	OFF	MONITOR Temperature/OPC Acquisition tool.
	5	CAUSE RESET	Enter	Reset of standby cause

Page	Line	Item	Description	Remarks (adjustment detail, etc.)
6/16		[COMP15KMAIN]		
	1	COMP15K ALL ADJ	Enter	Component 15K picture level adjustment
	2	COMP15K MAIN Y GAIN	141	Y GAIN adjustment value
	3	COMP15K MAIN CB GAIN	150	Cb GAIN adjustment value
	4	COMP15K MAIN CR GAIN	150	Cr GAIN adjustment value
	5	COMP15K Y OFFSET	64	Y OFFSET adjustment value
	6	COMP15K CB OFFSET	128	Cb OFFSET adjustment value
7/16		[HDTV]		
	1	HDTV ADJ	Enter	HDTV video level adjustment
	2	HDTV Y GAIN	141	HDTV Y GAIN adjustment value
	3	HDTV CB GAIN	150	HDTV Cb adjustment value
	4	HDTV CR GAIN	150	HDTV Cr adjustment value
	5	HDTV Y OFFSET	64	HDTV Y OFFSET adjustment value
	6	HDTV CB OFFSET	128	HDTV Cb OFFSET adjustment value
8/16		[ANALOG PC]		
	1	ANALOG PC ADJ	Enter	DVI ANALOG video level adjustment
	2	R OFFSET	64	R CUTOFF adjustment value
	3	G OFFSET	64	G CUTOFF adjustment value
	4	B OFFSET	64	B CUTOFF adjustment value
	5	R GAIN	44	R DRIVE adjustment value
	6	G GAIN	44	G DRIVE adjustment value
9/16		[SCART]		
	1	SCART RGB ADJ	Enter	SCART RGB level adjustment
	2	SCART R CUTOFF	64	SCART R CUTOFF adjustment value
	3	SCART G CUTOFF	64	SCART G CUTOFF adjustment value
	4	SCART B CUTOFF	64	SCART B CUTOFF adjustment value
	5	SCART R GAIN	44	SCART R GAIN adjustment value
	6	SCART G GAIN	44	SCART G GAIN adjustment value
10/16		[LUMAADJ]		
	1	VCOM ADJ	0	Common bias adjustment
	2	LCD LUMA ADJ	Enter	Upper and lower brightness difference adjustment
	3	LCD LUMA UP	0	
11/16		[FR DDRTEST]		
	1	DDRA TEST1	Enter	Execute DDRA test 1
	2	DDRA TEST2	Enter	Execute DDRA test 2
	3	DDRB TEST1	Enter	Execute DDRA test 1
	4	DDRB TEST2	Enter	Execute DDRA test 2
	5	DDRB TEST3	Enter	Execute DDRA test 3
	6	FRC ON/OFF	Enter	Execute FRC ON/OFF
	7	SOUSAM DDR BIST	Enter	
12/16		[LEV]		
	1	R GAIN (LO)	0	R DRIVE adjustment value
	2	G GAIN (LO)	0	G DRIVE adjustment value
	3	B GAIN (LO)	0	B DRIVE adjustment value
	4	R GAIN (HI)	0	R DRIVE adjustment value
	5	G GAIN (HI)	0	G DRIVE adjustment value
13/16		[M EEP SET]		
	1	MONITOR TIME OUT	ON	Monitor and the main communication time-out setting
	2	MONITOR MAX TEMP	32	MONITOR MAX temperature setting
	3	MONITOR EEP READ / WRITE	WRITE	MONITOR EEPROM READ/WRITE Setting/execution
	4	MONITOR EEP ADR	0x 0	MONITOR EEPROM arbitrary addressing
14/16		[M TEST PATTERN]		
	1	LCD TEST PATTERN	OFF	Pattern with built-in LCD controller display
	2	LCD AGI TEST PATTERN		
	3	LCD EVA TEST PATTERN		
	4	YEL TEST PATTERN		



Page	Line	Item	Description	Remarks (adjustment detail, etc.)
15/16		[FR REGI]		
	1	READ/WRITE	READ	Read/Write
	2	SLAVE/ADDRESS	SLAVE0	Slave address
	3	RESISTER ADDRESS	0x 0	Register address
			0x 0	
	4	WRITE DATA	0x 0	Writing data
			0x 0	
	5	READ DATA	0x 0	Reading data
			0x 0	
16/16		[ETC]		
	1	EEP SAVE	OFF	Writing setting values to EEPROM.
	2	EEP RECOVER	OFF	Reading setting values from EEPROM.
	3	MONITOR ERROR CAUSE RESET	OFF	Reset of monitor error cause
	4	STANDBY CAUSE RESET	OFF	Reset stand by cause.
	5	MODEL NAME	DH77	Model name setting
	6	PANEL SIZE	32/42/46	Panel size setting. (32/37/42/46/52/65)
	7	PRODUCT EEP ADR	0x 0	Don't touch when serving (for producer of factory)
	8	PRODUCT EEP DATA	0x 0	Don't touch when serving (for producer of factory)

## 6. Special features

### 1. NORMAL STANDBY CAUSE (Page 1/16)

Display of a cause (code) of the last standby.

The cause of the last standby is recorded in EEPROM whenever possible.

Checking this code will be useful in finding a problem when you repair the troubled set.

### 2. EEP SAVE (Page 16/16)

Storage of EEP adjustment value

### 3. EEP RECOVER (Page 16/16)

Retrieval of EEP adjustment value from storage area.

## 7. Lamp error detection

### 1. Function

This LCD colour TV set incorporates a lamp error detection feature that automatically turns off the power for safety under abnormal lamp or lamp circuit conditions. If by any chance anything is wrong with the lamp or lamp circuit or if the lamp error detection feature is activated for some reason, the following will result.

1) The power is interrupted in about 6 seconds after it is turned on.

(The power LED on the front of the TV set turns red from green and keeps blinking in red: ON for 300ms and OFF for 1500ms.).

2) If the above phenomenon 1) occurs 5 times consecutively, it becomes impossible to turn on the power. (The power LED remained red).

### 2. Measures

1) Checking with lamp error detection OFF

Enter the adjustment process mode, referring to 2. Entering and exiting the adjustment process mode.

If there is a problem with the lamp or lamp circuit, the lamp will go out. (The power LED is green.)

Then, you can check the operation to see if the lamp and lamp circuit are in trouble.

2) Resetting the lamp error count

After the lamp and lamp circuit are found out of trouble, reset the lamp error count. If a lamp error is detected five consecutive times, the power cannot be turned on. Using the cursor (  $\wedge$  /  $\vee$  ) key, move to the cursor to [LAMP ERROR RESET], Line 8 on adjustment process mode service page 2/16.

With the cursor (</>) keys, select the [LAMP ERROR RESET] value. Finally press the cursor (OK) keys to reset the value to "0".

### Table of contents of adjustment process mode Page 2/16

INDUSTRY INIT	Enter	
INDUSTRY INIT (-Hotel)	OFF	
HOTEL MODE	OFF	
Center Acutime	5H0M	
RESET	OFF	
Backlight Acutime		
RESET	OFF	
LAMP ERROR RESET	OFF	← Resetting to "0"
ADJ PARAM SET	Enter	
VIC XPOS	0	
VIC YPOS	0	
VIC SIGNAL TYPE	MAIN	
VIC READ	OFF	

## 8. Public Mode (Hotel Mode)

### 1. Starting the Public Mode

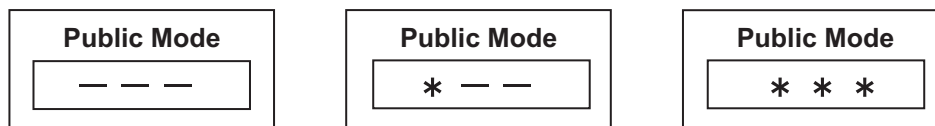
- There are two following ways to display the PUBLIC Mode setting screen.

#### 1) On the process adjustment mode screen (2/16), set the "HOTEL MODE" Flag to ON.

Turn off the power, and turn it on again, pressing the **CHANNEL UP** and **Volume UP** keys of the main unit at the same time.

#### 2) Enter the Pass Word, and start the unit.

- Turn on the power, pressing the **INPUT** and **Volume UP** keys of the main unit at the same time.
- Display the Pass Word input screen.



#### Operation procedure

- The initial input position is the digit at the left end.
  - For the numeric keys **0** to **9** of R/C, key input is accepted. Input of the other keys is prohibited.
  - Change "—" to "\*" by inputting the numeric key at the input position, and shift the input position rightward one digit.
  - When three digits are completely input, the Pass Word is judged.
- c) Check the Pass Word by inputting three digits.

If the Pass Word is **0 2 7**, it shifts to the PUBLIC Mode setting screen.

In another case, the screen is erased, and it operates in the ordinary mode.

### 2. Exiting the Public Mode screen

- There are two following ways to exit the Public Mode setting screen.

#### 1) Turn off the power.

#### 2) Select "Execution" in the PUBLIC\_Mode to execute it.

Activate the restart under the set content. Here, the START input SOURCE setting is excluded since this item is referred to only when the power is turned on.

### 3. Set value of the Public Mode

- When the shipment setting is done, a set each value in Public Mode is initialized.  
(PUBLIC MODE in the process mode Setting of a flag is also initialized)
- Separately, the shipment beginnings when all except for each set value in Public Mode is initialized are provided for a process mode.  
(INDUSTRY INIT (-HOTEL))
- Only when turning on the HOTELE MODE item, each setting is effective.
- After it decides it with EXECUTE, it AC OFF/ON it to reflect a set value.

## 4. Basic operation in the Public Mode

Volume (  $\wedge$  /  $\vee$  ) or Cursor (</>)  
 Channel (  $\wedge$  /  $\vee$  ) or Cursor (  $\wedge$  /  $\vee$  )  
 Decision (ok)  
 PUBLIC Mode R/C

Ordinary operation mode:

PUBLIC Mode:

Change or execution of the set value.  
 Movement to the selected item.  
 Execution (Used by the items "Execution" and "RESET".)  
 It enters the PUBLIC Mode.  
 PUBLIC MODE Flag is set to "ON".  
 It exits the PUBLIC Mode.  
 PUBLIC MODE Flag does not change.  
Any set item in PUBLIC Mode is not initialized.

Public Mode	
POWER ON FIXED	[VARIABLE]
SHUT DOWN MODE	[NORMAL]
MAXIMUM VOLUME	[60]
VOLUME FIXED	[VARIABLE]
VOLUME FIXED LEVEL	[20]
RC BUTTON	[RESPOND]
PANEL BUTTON	[RESPOND]
MENU BUTTON	[RESPOND]
AV POSITION FIXED	[VARIABLE]
ON SCREEN DISPLAY	[YES]
INPUT MODE START	[NORMAL]
INPUT MODE FIXED	[VARIABLE]
LOUD SPEAKER	[ON]
RC PATH THROUGH	[OFF]
232C POWON	[DISABLE]
HOTELMODE	[ON]
RESET	
EXECUTE	

## 5. Operation after "RESET"

Select "RESET" in the PUBLIC Mode, and it operates as follows when it is executed (refer to the basic operation).

- The set contents in the PUBLIC mode are initialized.
- It does not exit the PUBLIC mode.
- If "EXECUTE" is not executed, the content that does RESET is not reflected.

## 6. Setting items (\* Item names and selective items are expressed in English.)

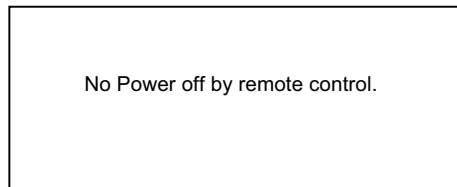
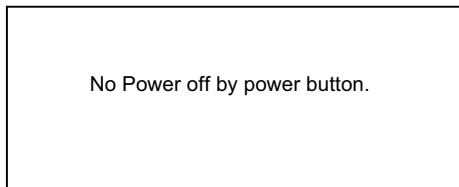
## 1) Power ON fixed [POWER ON FIXED]

Option	"VARIABLE", "FIXED_ALL", "FIXED_BODYKEY" or "RCRESPOND" (loopenabled)
Default	"VARIABLE"
Function	<ul style="list-style-type: none"> <li>When set to "FIXED_ALL", the "POWER/RECEPTION" key on the main unit or remote control is disabled. However, the power can be turned off using the "MAIN POWER" switch.</li> <li>For some models, the (MAIN) POWER switch is also disabled.</li> <li>When set to "FIXED_BODYKEY", only the "MAIN POWER" key on the main unit is disabled (the remote control is enabled).</li> <li>When selecting "RC RESPOND", the main unit's POWER switch toggles between ON and Standby (the same operation as the remote control).</li> </ul>
Key disabled when set other than default	<ul style="list-style-type: none"> <li>OFF TIMER (SLEEP)</li> </ul>
Remarks	<ul style="list-style-type: none"> <li>When selecting to "FIXED_ALL", it functions with the correspondence which isn't done about other standby factors (see below).</li> <li>No operation OFF</li> <li>No signal OFF (including the power management)</li> </ul>

If the power button is pressed in the ordinary mode when set to "FIXED\_ALL", the caution is displayed for 5 seconds.

When power button on the main unit is pressed

When power button on R/C is pressed



\* The OSD display is an example.

If another ODS is previously displayed, the status is reset (MENU or similar).

## 2) Instantaneous current shutdown setting when turning off the power [SHUT DOWN MODE]

Option	"NORMAL" or "QUICK"
Default	NORMAL
Function	<ul style="list-style-type: none"> <li>Scanning or recording of the digital tuner is enabled/disabled when turning off the power. It is possible to put into the standby state instantaneously due to power off input.</li> </ul>
Remarks	When selecting "QUICK", the function does not work for the following items (The possible method differs from model to model: deleting the item, selection impossible, etc.) <ul style="list-style-type: none"> <li>ON TIMER, QUICK START, DIGITAL FIXED, etc.</li> </ul>

## 3) Volume maximum level [MAXIMUM VOLUME]

Option	0 ~ 60 (loopenabled)
Default	60
Function	<ul style="list-style-type: none"> <li>The volume cannot be increased more than the adjusted value (the main unit's speaker only).</li> </ul>
Remarks	<ul style="list-style-type: none"> <li>When set to 59 or less, only the figure is displayed in the normal mode; the volume bar is not displayed.</li> <li>The volume of the headphones or monitor output is limited.</li> <li>The setting is impossible when VOLUME FIXED is set other than VARIABLE.</li> </ul>

## 4) Volume fixed [VOLUME FIXED]

Option	"VARIABLE", "FIXED", "ACCTRL" or "AC/RCCTRL" (loopenabled)
Default	"VARIABLE"
Function	<ul style="list-style-type: none"> <li>FIXED: The volume is fixed to the value adjusted in the volume fixed level.</li> <li>AC CTRL: In the case of ACON, the unit starts at the volume specified in the volume fixed level.</li> <li>AC/RC CTRL: The unit starts at the volume specified in the volume fixed level.</li> </ul>
Exception	<ul style="list-style-type: none"> <li>In the adjustment process, the volume can be set to any level regardless of this setting.</li> </ul>
Key disabled when set to FIXED	<ul style="list-style-type: none"> <li>VOLUME UP/DOWN (VOL+/-) [both remote control and main unit]</li> <li>MUTE (MUTE) * The main unit's keys for the menu operation are enabled.</li> </ul>
Remarks	<ul style="list-style-type: none"> <li>VOLUME FIXED has priority over MAXIMUM VOLUME.</li> <li>The volume of the headphones or monitor output is fixed.</li> <li>The volume is not displayed when operating the above disabled keys.</li> </ul>

## 5) Volume fixed level [VOLUME FIXED LEVEL]

Option	0 ~ 60 (loop disabled)
Default	20
Function	The volume is fixed to the adjusted value (the main unit's speaker only).
Exception	<ul style="list-style-type: none"> <li>In the adjustment process, the volume can be set to any level regardless of this setting.</li> </ul>
Remarks	<ul style="list-style-type: none"> <li>When setting VOLUME FIXED to "VARIABLE", the setting cannot be changed.</li> <li>VOLUME can be abbreviated to VOL.</li> </ul>

## 6) Remote control operation [RC BUTTON]

Option	"RESPOND", "NO RESPOND" or "LIMITED" (loop enabled)
Default	RESPOND
Function	<p>The operation of the remote control's keys is set.</p> <ul style="list-style-type: none"> <li>When set to "NO RESPOND" the remote control's keys in the normal state are disabled. The POWER key (RECEPTION/STANDBY key) is also disabled.</li> <li>When set to "LIMITED", only a part of keys (CHANNEL, etc.) is enabled and other keys are disabled. (POWER, VOLUME ( <math>\wedge</math> / <math>\vee</math> ), CHANNEL ( <math>\wedge</math> / <math>\vee</math> ), LIGHT CONTROL (BRIGHTNESS SENSOR), BROADCAST SELECT)</li> </ul>
Exception	<ul style="list-style-type: none"> <li>The PROCESS MODE, INSPECTION MODE and HOTEL MODE keys are enabled regardless of this setting.</li> <li>All the keys are enabled regardless of this setting while entering the process mode, inspection mode or hotel mode.</li> </ul>
Remarks	The keys enabled when set to "LIMITED" correspond to those on the remote control for hotel; they differ from model to model.

## 7) Main Unit Operation [PANEL BUTTON]

Option	"RESPOND" or "NO RESPOND" (loop enabled)
Default	RESPOND
Function	NO RESPOND: The main unit's keys are disabled excluding the POWER key (RECEPTION/STANDBY key).
Exception	<ul style="list-style-type: none"> <li>The start operation in the process mode, inspection mode or hotel mode is enabled regardless of this setting.</li> <li>All the keys are enabled regardless of this setting while entering the process mode, inspection mode or hotel mode.</li> <li>For the main unit's MENU key, menu operation is possible regardless of the setting during the initial setting when the power is turned on for the first time.</li> </ul>

## 8) Menu operation [MENU BUTTON]

Option	"RESPOND" or "NO RESPOND" (loop enabled)
Default	RESPOND
Function	The MENU key on the main unit or remote control is disabled.
Exception	<ul style="list-style-type: none"> <li>The PROCESS MODE, INSPECTION MODE and HOTEL MODE keys are enabled regardless of this setting.</li> <li>All the keys are enabled regardless of this setting while entering the process mode, inspection mode or hotel mode.</li> </ul>
Key disabled when set other than default excluding the MENU key	All the direct transition keys to menu display (AUTO PRESET, MANUAL MEMORY and others)
Remarks	<p>When set to "NO RESPOND"</p> <ul style="list-style-type: none"> <li>For the models with the MENU key on the main unit, menu operation is possible regardless of the setting during the initial setting when the power is turned on for the first time.</li> </ul>

## 9) AV position fixed [AV POSITION FIXED]

Option	"VARIABLE" or "FIXED" (loop enabled)
Default	"VARIABLE"
Function	<ul style="list-style-type: none"> <li>When set to "FIXED", the image adjustment and sound adjustment items in the menu are fixed in the selected state.</li> <li>When receiving "AV POSITION" of the remote control, only the actual state is displayed, and no setting is changed.</li> </ul>
Remarks	<ul style="list-style-type: none"> <li>When receiving the sound select direct keys (AV POSITION key, OPC, DOLBY key, etc.), only the actual state is displayed; no setting is changed.</li> <li>Since the settings for the hotel mode are retained even after the personal data is initialized, each item for the AV position and image adjustment and each value for the sound adjustment are not initialized.</li> </ul>

## 10)OSD display [ON SCREEN DISPLAY]

Option	"YES", "NO" or "LIMITED" (loop enabled) "LIMITED" is looped only in case of need (destination).
Default	YES
Function	<ul style="list-style-type: none"> <li>When set to "NO", the following OSD is not displayed. Registration, setting, adjustment menu, channel call, volume bar, and input select.</li> <li>When set to "LIMITED", only a part of OSD is not displayed.</li> </ul>
Key which may be enabled (Example of the confusing key)	* OK if simple input select occurs or the original state returns soon if left.
Key disabled when set other than default (example)	* The keys by which visibility of the screen or sound is changed cannot be used. STILL IMAGE, SCREEN DISPLAY, OFF TIMER, AV POSITION, BRIGHTNESS SENSOR, SCREEN SIZE SELECT, AUTO PRESET, MANUAL MEMORY, IMAGE SELECT, SOUND SELECT, LANGUAGE
Remarks	<ul style="list-style-type: none"> <li>When set to "NO", The set time of OFF TIMER "SLEEP" is cleared. When the card function is set to "NO", all the functions including input select and direct keys are invalid.</li> </ul>

## 11)Start mode [INPUT MODE START]

Option	"NORMAL" or "Input source 1 (input selection or channel)" ••• (loop enabled)
Default	NORMAL
Function	The input source or channel to start when turning on the power is set. If "NORMAL", the content of the last memory is followed.
Remarks	<ul style="list-style-type: none"> <li>When set other than "NORMAL", Display of the channel setting menu and channel setting operation are prohibited.</li> <li>When set to "NORMAL", "START MODE FIXED" is set to "VARIABLE" and selection is prohibited.</li> </ul>

Example of option: "NORMAL"

"TV (002TV)", "INPUT1", "INPUT2", "INPUT3", "PC", "HDMI1", "HDMI2", "HDMI3", "INPUT8"

## 12)Input fixed [INPUT MODE FIXED]

Option	"VARIABLE" "FIXED", "AC CTRL" or "AC/RC CTRL" (loop enabled)
Default	VARIABLE
Function	When set to "FIXED", switching to another channel or input is impossible after start-up in the set value of "INPUT MODE START". When set to "AC CTRL", the unit starts in the set value of "INPUT MODE START" in the case of the ACON only. When set to "AC/RC CTRL", the unit starts in the set value of "INPUT MODE START".
Key disabled when set To "FIXED" (example)	CHANNEL ( $\wedge$ / $\vee$ ), DIRECT CHANNEL buttons, FLASHBACK, INPUT SELECT, TV/VIDEO, AUTO PRESET, MANUAL MEMORY, i.LINK, DIRECT INPUT SELECT, ATV, DTV, EPG, RADIO
Remarks	<ul style="list-style-type: none"> <li>If the "START MODE" setting is "NORMAL", this item cannot be set. Set to "VARIABLE".</li> <li>When set to "FIXED" The channel setting menu and input selection menu in the menu are not displayed.</li> </ul>

## 13)Speaker ON/OFF selection [LOUD SPEAKER]

Option	"ON" or "OFF" (loop enabled)
Default	ON
Function	The sound from the speakers is not output even if the headphones are not used.
Remarks	<ul style="list-style-type: none"> <li>When the VOLUME UP/DOWN key is pressed, the mute icon is displayed for 4 seconds.</li> <li>For the MUTE key and sound-related keys, caution is displayed.</li> <li>For the headphones and monitor output sound, normal operation is possible.</li> </ul>

## 14)Remote control path through [RC PATH THROUGH]

Option	"OFF", "ON: TV RCE" or "ON: TV RCD" (loop enabled)
Default	OFF
Function	The signal received by the remote control's light-receiving section is output to the blank pin (9pin) of RS232C.
Exception	<ul style="list-style-type: none"> <li>Even in the case of "ON: TV RCD", the PROCESS MODE, INSPECTION MODE and HOTEL MODE keys are enabled.</li> <li>Even in the case of "ON: TV RCD", all the keys are enabled while entering the PROCESS MODE, INSPECTION MODE and hotel mode.</li> </ul>
Remarks	<ul style="list-style-type: none"> <li>The model always outputting and that impossible to output exist due to the structure of the hardware.</li> </ul>

## 15)232C power ON control [232C POWON]

Option	"ENABLE" or "DISABLE" (loop enabled)
Default	DISABLE
Function	Power ON by the 232C command is enabled/disabled in the standby state. The same function as 232C command "RSPW". "ENABLE": POWR0001 is always enabled. "DISABLE": Start-up may be impossible at POWR0001. (If the 232C command reception module is set to OFF, the command is invalid.)

## 16)Hotel mode setting [HOTELMODE]

Option	"OFF" or "ON" (loop enabled)
Default	OFF
Function	The items set in the hotel mode setting menu are enabled or disabled. The same item as [HOTELMODE] in the adjustment process menu.
Remarks	• Each operation of the hotel mode is impossible unless this item is set to ON.

## 9. Video signal adjustment procedure

The adjustment process mode menu is listed in Section 5.


Signal generator level adjustment check (Adjust to the standard value level.)

- Composite signal PAL/SECAM : 0.7Vp-p  $\pm$  0.02Vp-p (Pedestal to white level)
- RGB signal : 0.7Vp-p  $\pm$  0.02Vp-p
- 15K component signal (50 Hz) : Y level : 0.7Vp-p  $\pm$  0.02Vp-p (Pedestal to white level)  
: PB, PR level : 0.7Vp-p  $\pm$  0.02Vp-p
- 33K component signal : Y level : 0.7Vp-p  $\pm$  0.02Vp-p (Pedestal to white level)  
: PB, PR level : 0.7Vp-p  $\pm$  0.02Vp-p

## 1. Process mode

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Process mode		Enter the process adjustment mode using the process adjustment remote control.

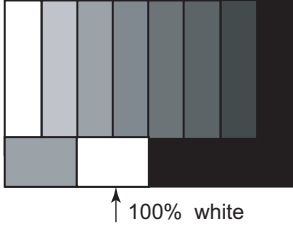
## 2. PAL signal adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] PAL full field colour bar  [Terminal] EXT1 SCART video input	<ul style="list-style-type: none"> <li>• Send the PAL full field colour bar (colour saturation: 75%) signal to the SCART video input of EXT1.</li> </ul> <div style="text-align: center;"> <p>[VIDEO input signal]</p>  <p>↑ 100% white</p> </div>
2	Auto adjustment performance	Process page No. 4/16	Point the cursor to [PAL ADJ] and press the [OK] key. The adjustment is complete when [PAL ADJ OK] is displayed.

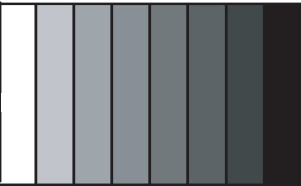
CAUTION: When performing "(2) PAL signal adjustment" after completing all the adjustments, be sure to execute "(3) TUNER adjustment".



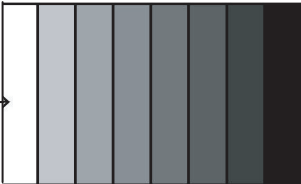
## 3. TUNER adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] PAL split colour bar In-house UV  [Terminal] TUNER	<ul style="list-style-type: none"> <li>Send the in-house signal (PAL colour bar) to TUNER.</li> <li>For the PAL colour bar pattern (E-12ch), the picture level and sync level must show a ration of 7 to 3.</li> </ul> <div style="text-align: center;"> <p>[In-house E-12CH]</p>  <p>↑ 100% white</p> </div>
2	Auto adjustment performance	Process page No. 3/16	Point the cursor to [TUNER ADJ] and press the [OK] key. The adjustment is complete when [TUNER ADJ OK] is displayed.

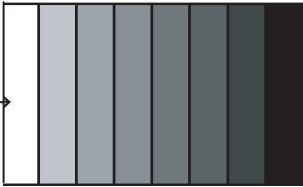
## 4. SECAM signal adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] SECAM full field colour bar  [Terminal] EXT1 SCART video input	<ul style="list-style-type: none"> <li>Send the SECAM full field colour bar (colour saturation: 75%) signal to the SCART video input of EXT1.</li> </ul> <div style="text-align: center;"> <p>[VIDEO input signal]</p>  <p>↑ 100% white</p> </div>
2	Auto adjustment performance	Process page No. 4/16	Point the cursor to [SECAM ADJ] and press the [OK] key. The adjustment is complete when [SECAM ADJ OK] is displayed.

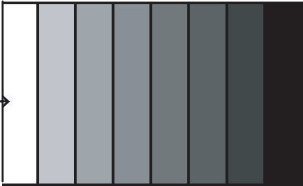
## 5. ADC adjustment (Component 15K)

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] COMP15K 50Hz 100% full field colour bar  [Terminal] EXT3 component input	<ul style="list-style-type: none"> <li>Send the component 15K 100% full field colour bar (colour saturation: 100%) signal to the component input of EXT3.</li> </ul> <div style="text-align: center;">  <p>100% white →      ← Black</p> </div>
2	Auto adjustment performance	Process page No. 6/16	Point the cursor to [COMP 15k ALL ADJ] and press the [OK] key. The adjustment is complete when [COMP 15k ALL OK] is displayed.


## 6. ADC adjustment (Component 33K)

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] COMP33K 50Hz 100% full field colour bar  [Terminal] EXT3 component input	<ul style="list-style-type: none"> <li>Send the component 33K 100% full field colour bar (colour saturation: 100%) signal to the component input of EXT3.</li> </ul> 
2	Auto adjustment performance	Process page No. 7/16	Point the cursor to [HDTV ADJ] and press the [OK] key. The adjustment is complete when [HDTV ADJ OK] is displayed.

## 7. PC (Analog D-sub 15-pin) signal adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] XGA 60Hz 100% full field color bar  [Terminal] EXT4 PC input	<ul style="list-style-type: none"> <li>Send the XGA 60Hz 100% full field color bar (color saturation: 100%) signal to the PC input of EXT4.</li> </ul> 
2	Auto adjustment performance	Process page No. 8/16	Point the cursor to [ANALOG PC ADJ] and press the [OK] key. The adjustment is complete when [ANALOG PC ADJ OK] is displayed.

## 8. RGB (SCART) signal adjustment

	Adjustment point	Adjustment Conditions	Adjustment procedure
1	Setting	[Signal] RGB 15K 60Hz 100% full field color bar  [Terminal] EXT1 SCART RGB input	<ul style="list-style-type: none"> <li>Send the RGB 15K 100% full field color bar (color saturation: 100%) signal to the SCART input of EXT1.</li> </ul> 
2	Auto adjustment performance	Process page No. 9/16	Point the cursor to [SCART RGB ADJ] and press the [OK] key. The adjustment is complete when [SCART RGB ADJ OK] is displayed.

## 10. White Balance Adjustment

	Adjustment point	Adjustment conditions	Adjustment procedure																																														
1	Setting	Light control: MAX (+16)  (Place the luminance meter in the center of the screen.)	1) Confirm the setting conditions. 2) Connect the white balance adjustment jig. 3) Display the adjustment screen by the RS-232C command.																																														
2	Automatic adjustment execution	[Command] Process mode KRSW0001 KKT10037  Setting KY0F0000 0SDS0001 SBSL0016  Multi-point adjustment mode MSET0001  Adjustment value initialization MSET0004  Point 6 LEV60232 MG6G**** MG6B**** MG6R****  Point 5 LEV50200 MG5G**** MG5B**** MG5R****  Point 4 LEV40136 MG4G**** MG4B**** MG4R****  Point 3 LEV30114 MG3G**** MG3B**** MG3R****  Point 2 LEV20078 MG2G**** MG2B**** MG2R****  Point 1 LEV10048 MG1G**** MG1B**** MG1R****  Writing MSET0003	[Adjustment procedure] 1) Transmit the “monitor adjustment process” code using the remote control. 2) Set the point 6 to the specified gradation, specify the strongest color as the fixed color, and adjust the RGB so that it becomes the standard value through negative adjustment. 3) Set the point 5 to the specified gradation, set the G correction value (3200 x G value of point 6/3712) (fractions rounded off), and adjust the RB so that it becomes the standard value. 4) Set the point 4 to the specified gradation, set the G correction value (2176 x G value of point 6/3712) (fractions rounded off), and adjust the RB so that it becomes the standard value. 5) Set the point 3 to the specified gradation, set the G correction value (1824 x G value of point 6/3712) (fractions rounded off), and adjust the RB so that it becomes the standard value. 6) Set the point 2 to the specified gradation, set the G correction value (1248 x G value of point 6/3712) (fractions rounded off), and adjust the RB pattern so that it becomes the standard value. 7) Set the point 1 to the specified gradation, set the G correction value (768 x G value of point 6/3712) (fractions rounded off), and adjust the RB so that it becomes the standard value. 8) Write the adjustment value by the MSET0003 command and turn off the AC power. * RGB initial value of point 6: Set gradation 3712 * RGB initial value of points 1 to 5: G correction value of each point (At each point, adjustment is made so that the remainder of the RGB adjustment value/4 is equal.)  [Adjusted value] * According to the “Standard settings” submitted by the Technical Department.  [Adjustment standard value] Measuring instrument: [Minolta CA-210] Technical measuring instrument <table><tr><th></th><th>Level</th><th>Reference value</th><th>Adjustment spec</th><th>Inspection spec</th></tr><tr><td rowspan="2">Point 6</td><td rowspan="2">928</td><td>x = 0.272</td><td rowspan="2">±0.001</td><td rowspan="2">±0.002</td></tr><tr><td>y = 0.277</td></tr><tr><td rowspan="2">Point 5</td><td rowspan="2">800</td><td>x = 0.272</td><td rowspan="2">±0.001</td><td rowspan="2">±0.002</td></tr><tr><td>y = 0.277</td></tr><tr><td rowspan="2">Point 4</td><td rowspan="2">544</td><td>x = 0.272</td><td rowspan="2">±0.0015</td><td rowspan="2">±0.003</td></tr><tr><td>y = 0.277</td></tr><tr><td rowspan="2">Point 3</td><td rowspan="2">456</td><td>x = 0.272</td><td rowspan="2">±0.0015</td><td rowspan="2">±0.003</td></tr><tr><td>y = 0.277</td></tr><tr><td rowspan="2">Point 2</td><td rowspan="2">312</td><td>x = 0.272</td><td rowspan="2">±0.003</td><td rowspan="2">±0.006</td></tr><tr><td>y = 0.277</td></tr><tr><td rowspan="2">Point 1</td><td rowspan="2">192</td><td>x = 0.272</td><td rowspan="2">±0.0035</td><td rowspan="2">±0.007</td></tr><tr><td>y = 0.277</td></tr><tr><td>Remarks</td><td></td><td colspan="3">Setting conditions when performing inspection AV MODE: [DYNAMIC] Monochro: ON Aging Time: Min. 60 minutes</td></tr></table>		Level	Reference value	Adjustment spec	Inspection spec	Point 6	928	x = 0.272	±0.001	±0.002	y = 0.277	Point 5	800	x = 0.272	±0.001	±0.002	y = 0.277	Point 4	544	x = 0.272	±0.0015	±0.003	y = 0.277	Point 3	456	x = 0.272	±0.0015	±0.003	y = 0.277	Point 2	312	x = 0.272	±0.003	±0.006	y = 0.277	Point 1	192	x = 0.272	±0.0035	±0.007	y = 0.277	Remarks		Setting conditions when performing inspection AV MODE: [DYNAMIC] Monochro: ON Aging Time: Min. 60 minutes		
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## 11. Confirmation item

### 1. HDMI-CEC inspection

Check that the HDMI-CEC circuit is operating.

## 12. Initialization to factory settings

After completing the factory setting, turn off the AC power.

**CAUTION:** Do not turn on the power after completing the factory setting. If the power is turned on, configure the factory setting again. Do not turn off the power using the remote control.

	Adjustment point	Adjustment conditions	Adjustment procedure
1	Factory setting	Complete the setting by turning off the AC power.	<p>In INDUSTRY INIT of the process page No. [2/16], select the destination [EUROPE / RUSSIA / SWEDEN] using the [R/C] Volume +/- keys, and press the [R/C] OK key. "/////////" is displayed, and then "SUCCESS ----- Destination" appears to complete the setting.</p> <p>Success: Background color [Green] / Failure: Background color [Red]</p> <p>Initialize the following items when configuring the factory setting.</p> <ol style="list-style-type: none"> <li>1) User setting values</li> <li>2) Channel data (broadcasting frequency, etc.)</li> <li>3) Manufacturer option setting values</li> <li>4) Password data</li> </ol>

## 13. Upgrading the software

1. Turn off the AC power (Unplug the AC power cord).
2. Insert the upgrading USB flash memory for upgrade into the service slot.
3. While holding down the power button, plug in the AC power cord of the main unit to turn on the power.
4. Upgrade begins automatically.

After the set starts, the upgrade screen like the figure below is displayed.

Software Update	
DH77	
MAIN	0%
SUB MICON	0%
PANEL EEPROM	NO DATA
MAIN Veriin	1.00
SUB MICON Version	1.00
PANEL EEPROM	NO DATA

5. If any of the procedures fails, the following upgrade failure screen shows up. For the failing procedure, the "NG" marking turns red.

**NOTE:** In such case, try to upgrade the software again. If it still fails, the hardware may be in trouble.

Software Update	
DH77	
MAIN	30%
SUB MICON	30%
PANEL EEPROM	NO DATA
MAIN Veriin	1.00
SUB MICON Version	1.00
PANEL EEPROM	NO DATA

6. When all the procedures are complete, the following upgrade success screen shows up. The new software version can be confirmed on screen. The version number appears when each item has been successfully upgraded. Finally the main version number appears on screen.

Software Update	
DH77	
UPGRADE SUCCESS	
MAIN	100%
SUB MICON	100%
PANEL EEPROM	NO DATA
MAIN Versiin	1.00
SUB MICON Version	1.00
PANEL EEPROM	NO DATA

7. Turn off the AC power (Unplug the AC power cord). Take out the upgrading USB flash memory.

It waits for about 20 seconds until the AC power supply is turned off.

8. Now the software has been upgraded.

NOTE: Then get the set started and call the process adjustment screen 1/16 to check the main software version.

CAUTION: 1) Do not take out and put in the USB flash memory during formatting.

- 2) It takes about one minute to the rewriting completion.

Please confirm the upgrade status on the screen becomes 100%.

- 3) The AC power supply of the set is waited for about 20 seconds until off (The AC outlet is pulled out) after the upgrade is completed.



## MAIN BLOCK DIAGRAM



**SYSTEM BLOCK DIAGRAM**

The diagram illustrates the architecture of a digital TV receiver, organized into a grid with columns 1-19 and rows A-J. The main components and their interconnections are as follows:

- Input Modules (EXT1-EXT8):** These modules handle various input signals:
  - EXT1 (CVBS/Y/RGB):** Provides composite video and RGB signals.
  - EXT2 (CVBS/Y):** Provides composite video signals.
  - EXT3 (COMP/AUD):** Provides stereo audio signals.
  - EXT4/6:** Handle PC inputs (RGB, HSync) and RS-232C communication.
  - EXT7:** Handle HDMI inputs.
  - EXT8:** Handle USB input.
- Central Processing:**
  - IC3302 (Digital AV decode):** The core decoder for video and audio.
  - IC4405 (CI Controller):** Manages conditional access and CI modules.
  - IC2002 (MONITOR/MICON):** Controls the monitor and micon functions.
  - IC1504 (HDMI-SW):** Switches HDMI signals between different sources.
- Audio and Video Output:**
  - IC504 (TUNER OUT) and IC507 (MUX):** Handle tuner and multiplexing functions.
  - IC508 (MONITOR OUT):** Controls the monitor output.
  - IC2701 (SP AMP):** Amplifies the stereo audio signals.
  - IC2801 (Splitter):** Splits video signals for the LCD panel.
- Power and Control:**
  - POWER SUPPLY CIRCUIT:** Includes a BACKUP SYSTEM and MAIN SYSTEM with various voltage regulators (BU+5V, 13V, 60V).
  - IC2002 (MONITOR/MICON):** Also manages power-related control signals.
  - IC2001 (SRAM) and IC2004 (EEPROM):** Store system configuration and user data.
  - IC2003 (RA/P2003) and IC2002 (RA/P102):** Remote control receivers and processors.
- Display and Interface:**
  - LCD PANEL UNIT:** Includes an LCD PANEL (1920x1080) and an LCD CONTROLLER.
  - IC7501 (CCFL BACKLIGHT CONTROLLER):** Controls the backlighting of the LCD panel.
  - IC8401 (FLASH):** Provides non-volatile storage for system firmware.
- Other Components:**
  - IC8405 (EEPROM):** Stores specific device settings.
  - IC8404 (SW):** A software component or switch.
  - IC8402 (EEPROM):** Another EEPROM component.
  - IC8403 (SW):** A software component or switch.
  - IC8406 (SW):** A software component or switch.
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  - IC8533 (SW):** A software



# SYSTEM BLOCK DIAGRAM

The diagram is organized into a grid with columns numbered 1 to 19 and rows lettered A to J. The main functional blocks and their interconnections are as follows:

- Input/Output and Tuning Section (Columns 1-5, Rows A-J):** Includes external inputs (EXT8, EXT1, EXT2, EXT3, EXT4, EXT5, EXT6, EXT7, EXT4/6), a USB port, and various signal processing ICs like IC504 (TUNER OUT MM1506XN), IC507 (MUX MM1507XN), IC508 (MONITOR OUT MM1756AU), and IC2701 (SP AMP YDA148SZ).
- Processing and Control Section (Columns 6-12, Rows A-J):** Features the central IC3302 (Digital AV decode ICX773WJQZ), IC4405 (CI Controller MT8295), IC3501 and IC3502 (1068Mbit DDR2), IC2002 (MONITOR MICON ICX786WJ), and IC9401 (XC721WJQZ 512Mbit FLASH).
- Power and Display Section (Columns 13-19, Rows A-J):** Contains the POWER SUPPLY CIRCUIT with a BACK-UP SYSTEM, LCD PANEL UNIT with LCD\_CONTROLLER and LCD\_PANEL (1920x1080), and a POWER UNIT with AC-INLET, NOISE\_FILTER, and various power regulation components.
- Other Key Components:** Includes IC8455 (EEPROM), IC8452 and IC8454 (SW), IC2009 (TCT8900X IR SW), IC101 (OPC SENSOR), and RMC101 (IR RECEIVER).

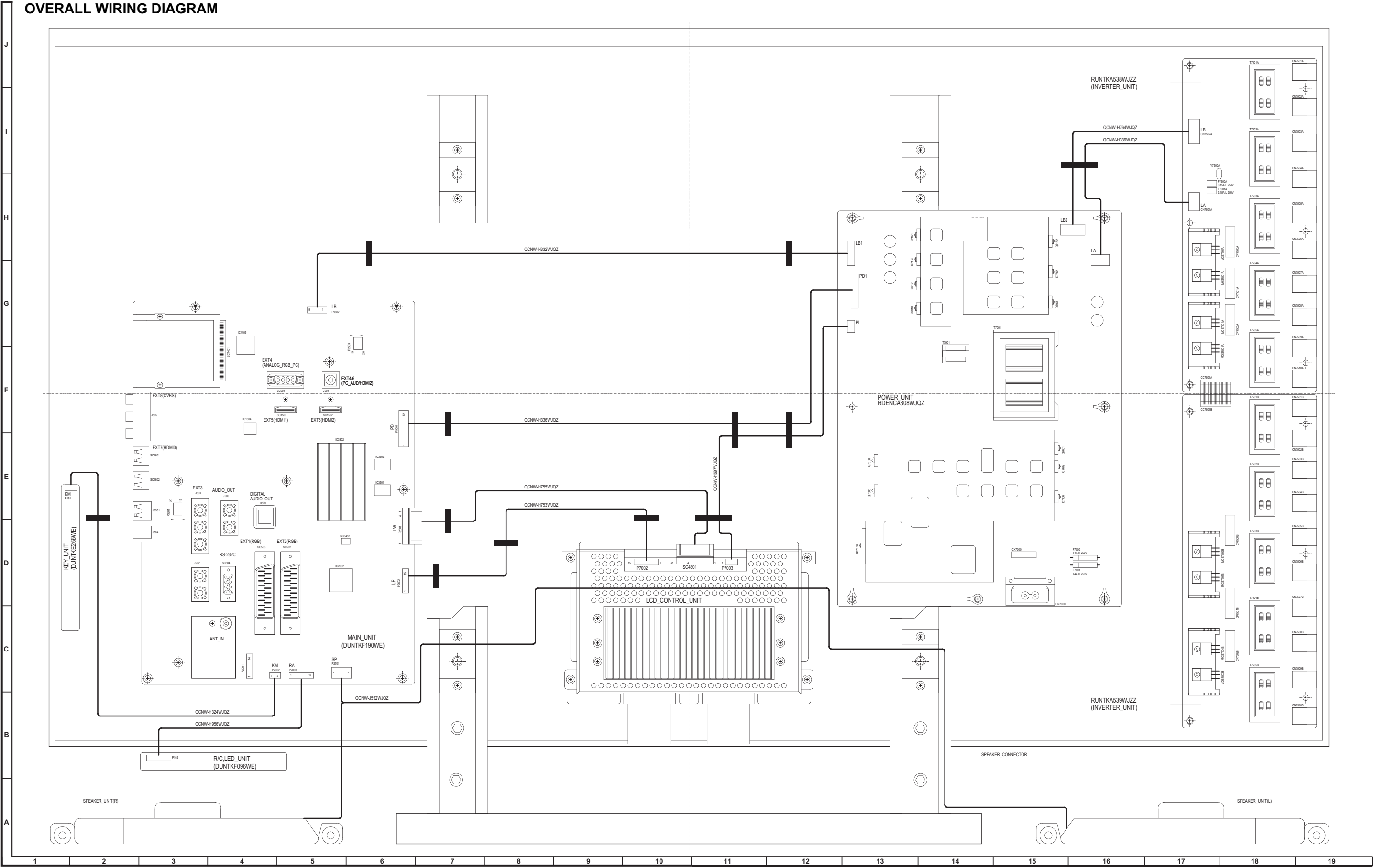
The diagram illustrates the complex signal flow and power distribution within the system, from external inputs through processing and control to the final output on the LCD panel and power management.

The diagram illustrates the overall wiring for the LCD control unit, showing its connection to various modules and components. The main unit is a large rectangular board with a grid of components. It is connected to several external units via ribbon cables and connectors.

- MAIN\_UNIT (DUNTKF190WE)**: The central control unit, featuring a grid of components including IC405, IC1504, IC3502, IC3501, IC2002, SC401, P7002, SC4801, P7003, and P7001.
- R/C,LED\_UNIT (DUNTKF096WE)**: Connected to the main unit via a ribbon cable (P102 RA).
- POWER & INVERTER\_UNIT (RUNTKA456WJQZ)**: Connected to the main unit via a ribbon cable (CN7101).
- SPEAKER\_UNIT(R) and SPEAKER\_UNIT(L)**: Connected to the main unit via ribbon cables (P2002 KM and P2003 RA).
- External Connectors**: The main unit has several external connectors including EXT1(RGB), EXT2(RGB), EXT3, EXT4, EXT5(HDMI1), EXT6(HDMI2), EXT7(HDMI3), EXT8(CVBS), AUDIO\_OUT, DIGITAL AUDIO OUT, RS-232C, ANT\_IN, and various other connectors (J501, J502, J503, J504, J505, J506, J507, J508, J509, J510, J511, J512, J513, J514, J515, J516, J517, J518, J519, J520, J521, J522, J523, J524, J525, J526, J527, J528, J529, J530, J531, J532, J533, J534, J535, J536, J537, J538, J539, J540, J541, J542, J543, J544, J545, J546, J547, J548, J549, J550, J551, J552, J553, J554, J555, J556, J557, J558, J559, J560, J561, J562, J563, J564, J565, J566, J567, J568, J569, J570, J571, J572, J573, J574, J575, J576, J577, J578, J579, J580, J581, J582, J583, J584, J585, J586, J587, J588, J589, J590, J591, J592, J593, J594, J595, J596, J597, J598, J599, J600, J601, J602, J603, J604, J605, J606, J607, J608, J609, J610, J611, J612, J613, J614, J615, J616, J617, J618, J619, J620, J621, J622, J623, J624, J625, J626, J627, J628, J629, J630, J631, J632, J633, J634, J635, J636, J637, J638, J639, J640, J641, J642, J643, J644, J645, J646, J647, J648, J649, J650, J651, J652, J653, J654, J655, J656, J657, J658, J659, J660, J661, J662, J663, J664, J665, J666, J667, J668, J669, J670, J671, J672, J673, J674, J675, J676, J677, J678, J679, J680, J681, J682, J683, J684, J685, J686, J687, J688, J689, J690, J691, J692, J693, J694, J695, J696, J697, J698, J699, J700, J701, J702, J703, J704, J705, J706, J707, J708, J709, J710, J711, J712, J713, J714, J715, J716, J717, J718, J719, J720, J721, J722, J723, J724, J725, J726, J727, J728, J729, J730, J731, J732, J733, J734, J735, J736, J737, J738, J739, J740, J741, J742, J743, J744, J745, J746, J747, J748, J749, J750, J751, J752, J753, J754, J755, J756, J757, J758, J759, J760, J761, J762, J763, J764, J765, J766, J767, J768, J769, J770, J771, J772, J773, J774, J775, J776, J777, J778, J779, J780, J781, J782, J783, J784, J785, J786, J787, J788, J789, J790, J791, J792, J793, J794, J795, J796, J797, J798, J799, J800, J801, J802, J803, J804, J805, J806, J807, J808, J809, J810, J811, J812, J813, J814, J815, J816, J817, J818, J819, J820, J821, J822, J823, J824, J825, J826, J827, J828, J829, J830, J831, J832, J833, J834, J835, J836, J837, J838, J839, J840, J841, J842, J843, J844, J845, J846, J847, J848, J849, J850, J851, J852, J853, J854, J855, J856, J857, J858, J859, J860, J861, J862, J863, J864, J865, J866, J867, J868, J869, J870, J871, J872, J873, J874, J875, J876, J877, J878, J879, J880, J881, J882, J883, J884, J885, J886, J887, J888, J889, J890, J891, J892, J893, J894, J895, J896, J897, J898, J899, J900, J901, J902, J903, J904, J905, J906, J907, J908, J909, J910, J911, J912, J913, J914, J915, J916, J917, J918, J919, J920, J921, J922, J923, J924, J925, J926, J927, J928, J929, J930, J931, J932, J933, J934, J935, J936, J937, J938, J939, J940, J941, J942, J943, J944, J945, J946, J947, J948, J949, J950, J951, J952, J953, J954, J955, J956, J957, J958, J959, J960, J961, J962, J963, J964, J965, J966, J967, J968, J969, J970, J971, J972, J973, J974, J975, J976, J977, J978, J979, J980, J981, J982, J983, J984, J985, J986, J987, J988, J989, J990, J991, J992, J993, J994, J995, J996, J997, J998, J999, J1000, J1001, J1002, J1003, J1004, J1005, J1006, J1007, J1008, J1009, J1010, J1011, J1012, J1013, J1014, J1015, J1016, J1017, J1018, J1019, J1020, J1021, J1022, J1023, J1024, J1025, J1026, J1027, J1028, J1029, J1030, J1031, J1032, J1033, J1034, J1035, J1036, J1037, J1038, J1039, J1040, J1041, J1042, J1043, J1044, J1045, J1046, J1047, J1048, J1049, J1050, J1051, J1052, J1053, J1054, J1055, J1056, J1057, J1058, J1059, J1060, J1061, J1062, J1063, J1064, J1065, J1066, J1067, J1068, J1069, J1070, J1071, J1072, J1073, J1074, J1075, J1076, J1077, J1078, J1079, J1080, J1081, J1082, J1083, J1084, J1085, J1086, J1087, J1088, J1089, J1090, J1091, J1092, J1093, J1094, J1095, J1096, J1097, J1098, J1099, J1100, J1101, J1102, J1103, J1104, J1105, J1106, J1107, J1108, J1109, J1110, J1111, J1112, J1113, J1114, J1115, J1116, J1117, J1118, J1119, J1120, J1121, J1122, J1123, J1124, J1125, J1126, J1127, J1128, J1129, J1130, J1131, J1132, J1133, J1134, J1135, J1136, J1137, J1138, J1139, J1140, J1141, J1142, J1143, J1144, J1145, J1146, J1147, J1148, J1149, J1150, J1151, J1152, J1153, J1154, J1155, J1156, J1157, J1158, J1159, J1160, J1161, J1162, J1163, J1164, J1165, J1166, J1167, J1168, J1169, J1170, J1171, J1172, J1173, J1174, J1175, J1176, J1177, J1178, J1179, J1180, J1181, J1182, J1183, J1184, J1185, J1186, J1187, J1188, J1189, J1190, J1191, J1192, J1193, J1194, J1195, J1196, J1197, J1198, J1199, J1200, J1201, J1202, J1203, J1

The diagram illustrates the internal wiring of a device, showing the connections between several key components:

- MAIN\_UNIT (DUNTKF190WE):** The central processing unit, featuring various input/output ports (EXT1, EXT2, EXT3, EXT4, EXT5, EXT6, EXT7, EXT8), connectors (J301, J302, J303, J304, J305, J306, J307, J308, J309, J310, J311, J312, J313, J314, J315, J316, J317, J318, J319, J320, J321, J322, J323, J324, J325, J326, J327, J328, J329, J330, J331, J332, J333, J334, J335, J336, J337, J338, J339, J340, J341, J342, J343, J344, J345, J346, J347, J348, J349, J350, J351, J352, J353, J354, J355, J356, J357, J358, J359, J360, J361, J362, J363, J364, J365, J366, J367, J368, J369, J370, J371, J372, J373, J374, J375, J376, J377, J378, J379, J380, J381, J382, J383, J384, J385, J386, J387, J388, J389, J390, J391, J392, J393, J394, J395, J396, J397, J398, J399, J400, J401, J402, J403, J404, J405, J406, J407, J408, J409, J410, J411, J412, J413, J414, J415, J416, J417, J418, J419, J420, J421, J422, J423, J424, J425, J426, J427, J428, J429, J430, J431, J432, J433, J434, J435, J436, J437, J438, J439, J440, J441, J442, J443, J444, J445, J446, J447, J448, J449, J450, J451, J452, J453, J454, J455, J456, J457, J458, J459, J460, J461, J462, J463, J464, J465, J466, J467, J468, J469, J470, J471, J472, J473, J474, J475, J476, J477, J478, J479, J480, J481, J482, J483, J484, J485, J486, J487, J488, J489, J490, J491, J492, J493, J494, J495, J496, J497, J498, J499, J500, J501, J502, J503, J504, J505, J506, J507, J508, J509, J510, J511, J512, J513, J514, J515, J516, J517, J518, J519, J520, J521, J522, J523, J524, J525, J526, J527, J528, J529, J530, J531, J532, J533, J534, J535, J536, J537, J538, J539, J540, J541, J542, J543, J544, J545, J546, J547, J548, J549, J550, J551, J552, J553, J554, J555, J556, J557, J558, J559, J560, J561, J562, J563, J564, J565, J566, J567, J568, J569, J570, J571, J572, J573, J574, J575, J576, J577, J578, J579, J580, J581, J582, J583, J584, J585, J586, J587, J588, J589, J590, J591, J592, J593, J594, J595, J596, J597, J598, J599, J600, J601, J602, J603, J604, J605, J606, J607, J608, J609, J610, J611, J612, J613, J614, J615, J616, J617, J618, J619, J620, J621, J622, J623, J624, J625, J626, J627, J628, J629, J630, J631, J632, J633, J634, J635, J636, J637, J638, J639, J640, J641, J642, J643, J644, J645, J646, J647, J648, J649, J650, J651, J652, J653, J654, J655, J656, J657, J658, J659, J660, J661, J662, J663, J664, J665, J666, J667, J668, J669, J670, J671, J672, J673, J674, J675, J676, J677, J678, J679, J680, J681, J682, J683, J684, J685, J686, J687, J688, J689, J690, J691, J692, J693, J694, J695, J696, J697, J698, J699, J700, J701, J702, J703, J704, J705, J706, J707, J708, J709, J710, J711, J712, J713, J714, J715, J716, J717, J718, J719, J720, J721, J722, J723, J724, J725, J726, J727, J728, J729, J730, J731, J732, J733, J734, J735, J736, J737, J738, J739, J740, J741, J742, J743, J744, J745, J746, J747, J748, J749, J750, J751, J752, J753, J754, J755, J756, J757, J758, J759, J760, J761, J762, J763, J764, J765, J766, J767, J768, J769, J770, J771, J772, J773, J774, J775, J776, J777, J778, J779, J780, J781, J782, J783, J784, J785, J786, J787, J788, J789, J790, J791, J792, J793, J794, J795, J796, J797, J798, J799, J800, J801, J802, J803, J804, J805, J806, J807, J808, J809, J810, J811, J812, J813, J814, J815, J816, J817, J818, J819, J820, J821, J822, J823, J824, J825, J826, J827, J828, J829, J830, J831, J832, J833, J834, J835, J836, J837, J838, J839, J840, J841, J842, J843, J844, J845, J846, J847, J848, J849, J850, J851, J852, J853, J854, J855, J856, J857, J858, J859, J860, J861, J862, J863, J864, J865, J866, J867, J868, J869, J870, J871, J872, J873, J874, J875, J876, J877, J878, J879, J880, J881, J882, J883, J884, J885, J886, J887, J888, J889, J890, J891, J892, J893, J894, J895, J896, J897, J898, J899, J900, J901, J902, J903, J904, J905, J906, J907, J908, J909, J910, J911, J912, J913, J914, J915, J916, J917, J918, J919, J920, J921, J922, J923, J924, J925, J926, J927, J928, J929, J930, J931, J932, J933, J934, J935, J936, J937, J938, J939, J940, J941, J942, J943, J944, J945, J946, J947, J948, J949, J950, J951, J952, J953, J954, J955, J956, J957, J958, J959, J960, J961, J962, J963, J964, J965, J966, J967, J968, J969, J970, J971, J972, J973, J974, J975, J976, J977, J978, J979, J980, J981, J982, J983, J984, J985, J986, J987, J988, J989, J990, J991, J992, J993, J994, J995, J996, J997, J998, J999, J1000, J1001, J1002, J1003, J1004, J1005, J1006, J1007, J1008, J1009, J1010, J1011, J1012, J1013, J1014, J1015, J1016, J1017, J1018, J1019, J1020, J1021, J1022, J1023, J1024, J1025, J1026, J1027, J1028, J1029, J1030, J1031, J1032, J1033, J1034, J1035, J1036, J1037, J1038, J1039, J1040, J1041, J1042, J1043, J1044, J1045, J1046, J1047, J1048, J1049, J1050, J1051, J1052, J1053, J1054, J1055, J1056, J1057, J1058, J1059, J1060, J1061, J1062, J1063, J1064, J1065, J1066, J1067, J1068, J1069, J1070, J1071, J1072, J1073, J1074, J1075, J1076, J1077, J1078, J1079, J1080, J10

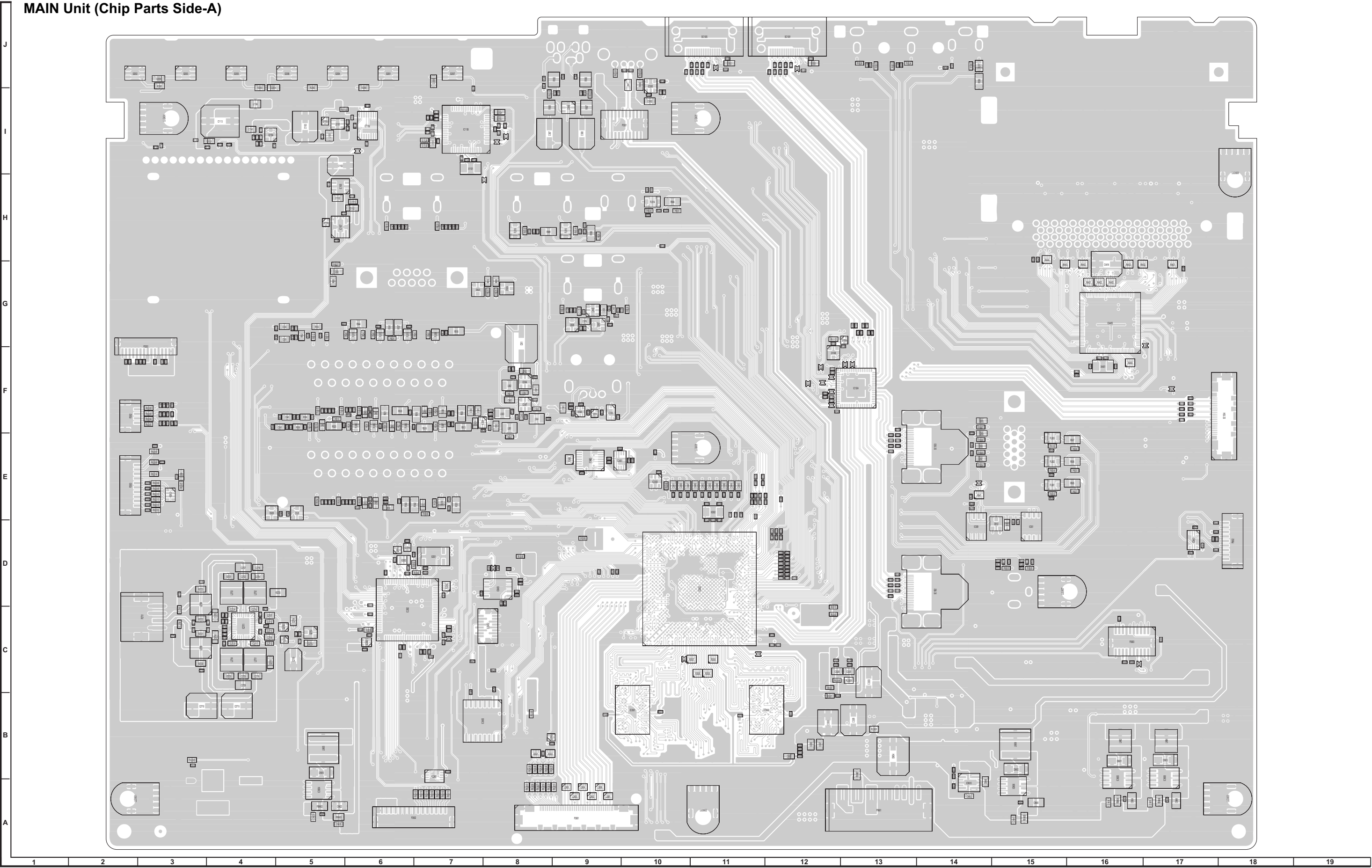


### MAIN Unit (Side-A)





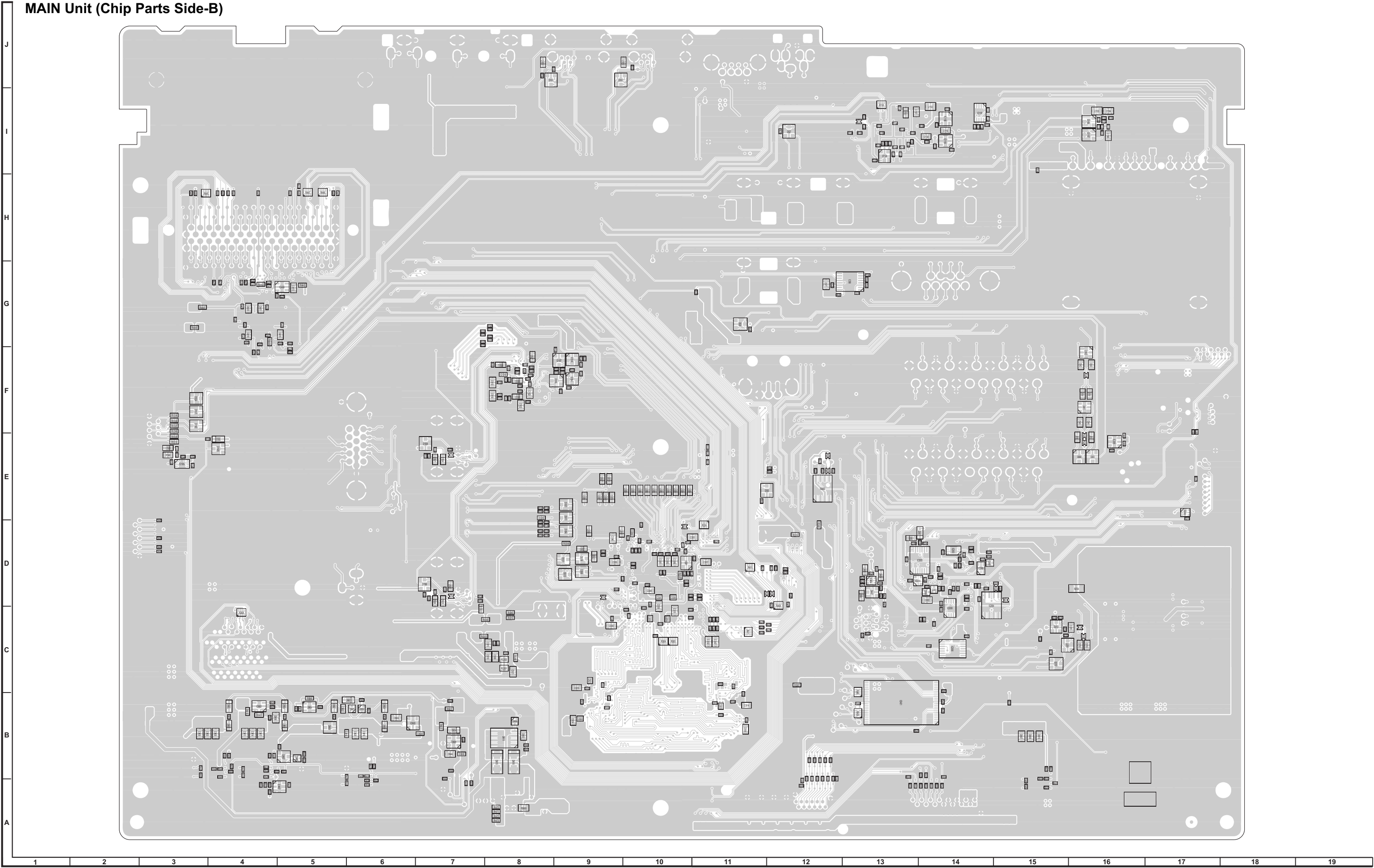
MAIN Unit (Chip Parts Side-A)



A
B
C
D
E
F
G
H
I
J



MAIN Unit (Chip Parts Side-B)





CHAPTER 6. SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 230V.  
Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR



1. The unit of resistance “Ω” is omitted.  
(K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted.  
(K= ± 10%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.

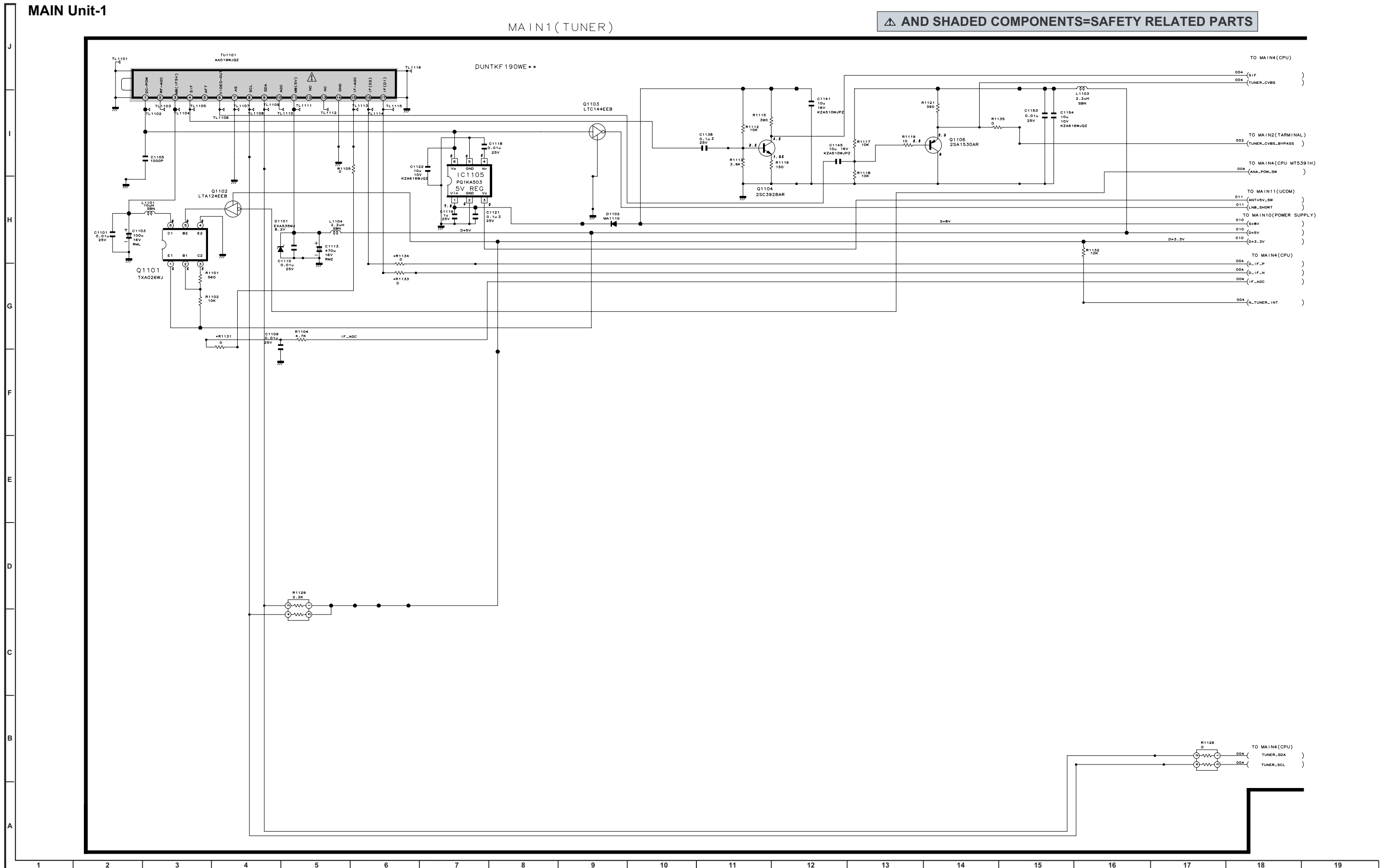
CAPACITOR

1. All capacitors are μF, unless otherwise noted.  
(P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.

**CAUTION:**  
This circuit diagram is original one, therefore there may be a slight difference from yours.

**SAFETY NOTES:**  
1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.  
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

**IMPORTANT SAFETY NOTICE:**  
PARTS MARKED WITH “” (  ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

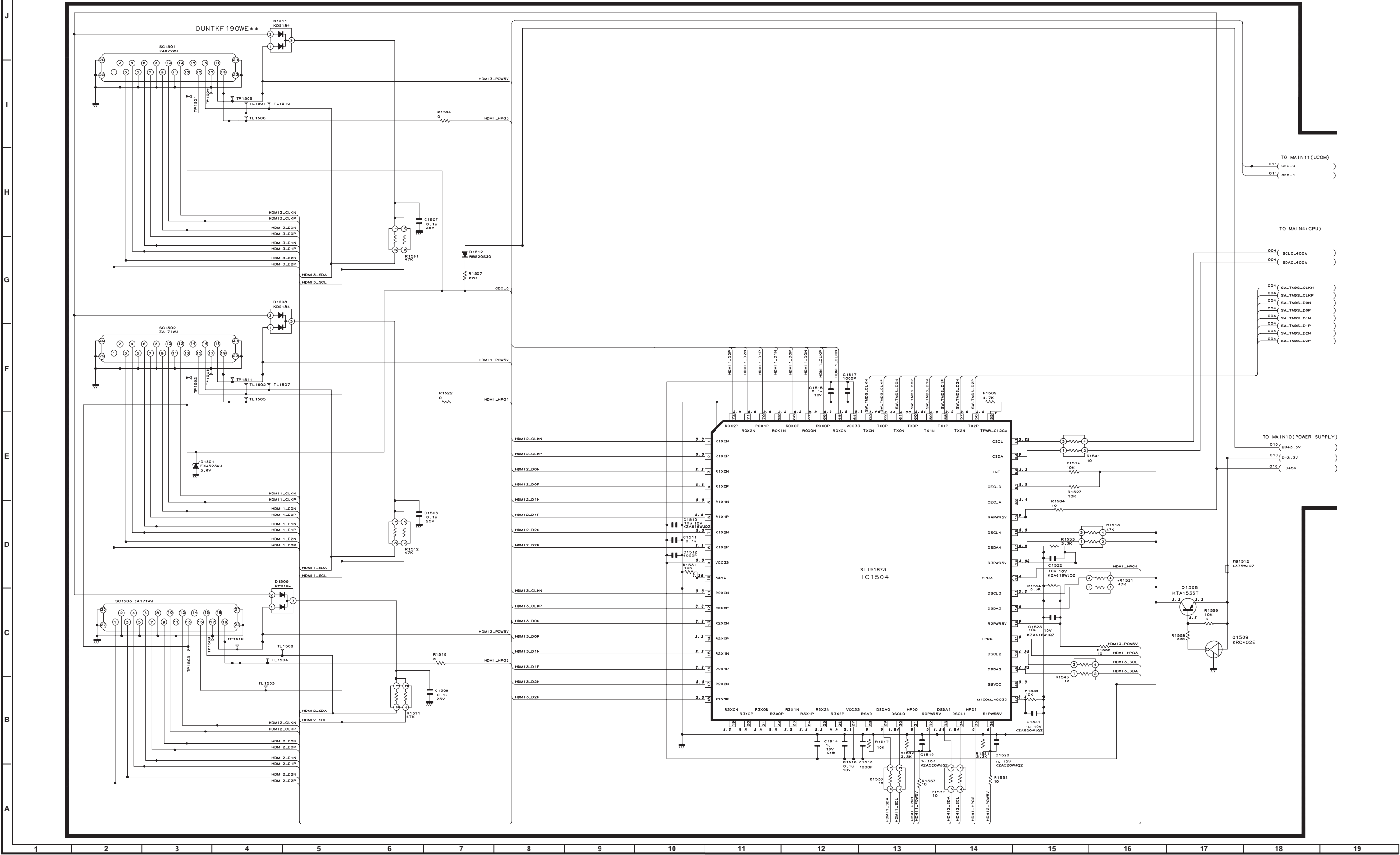


A	
B	
C	
D	
E	
F	
G	
H	
I	
J	



## MAIN Unit-3

### MAIN3 (HDMI)

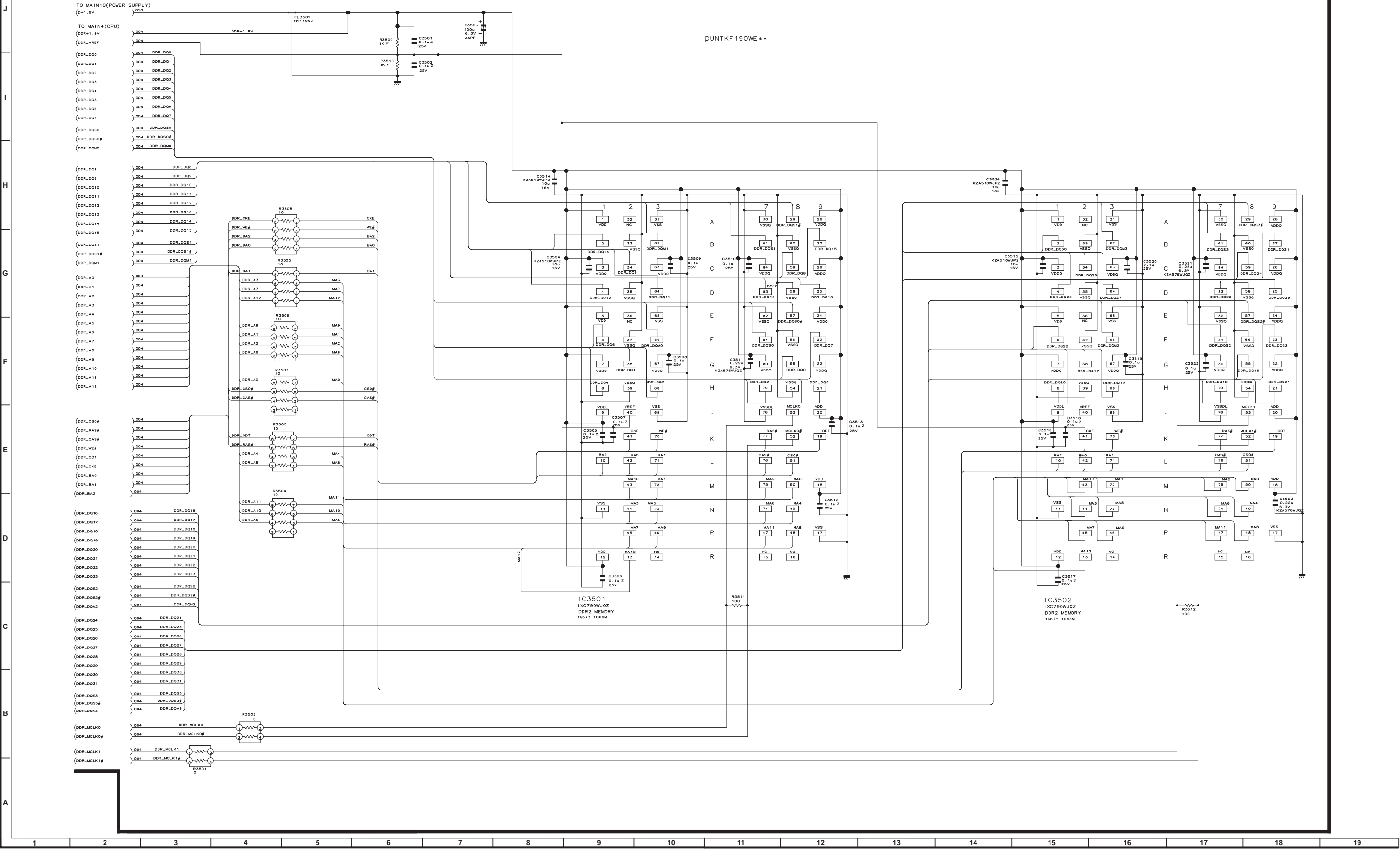


A	E	C	D	E	F	G	H	I	J
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MAIN Unit-5

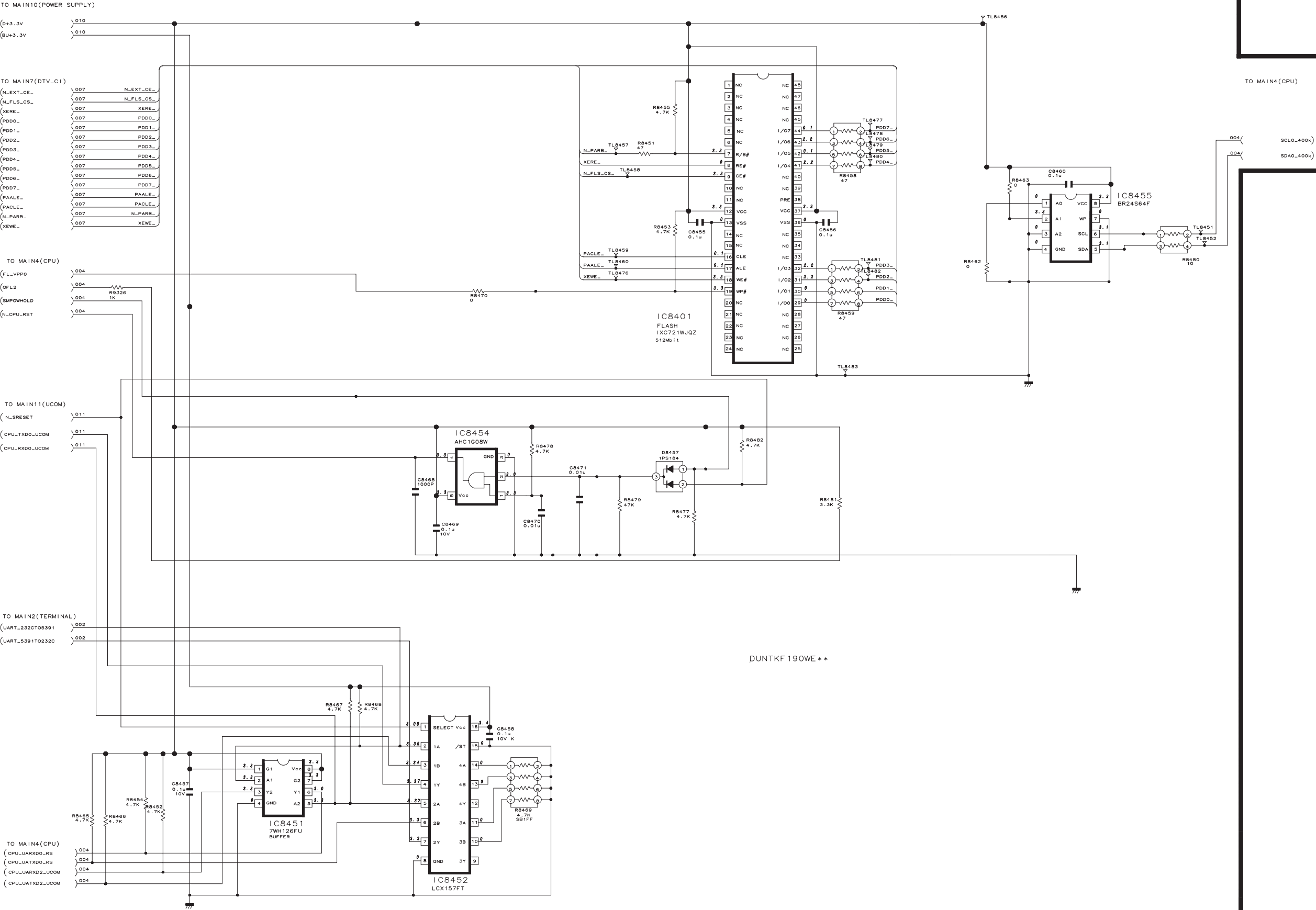
MAIN5 (DDR)





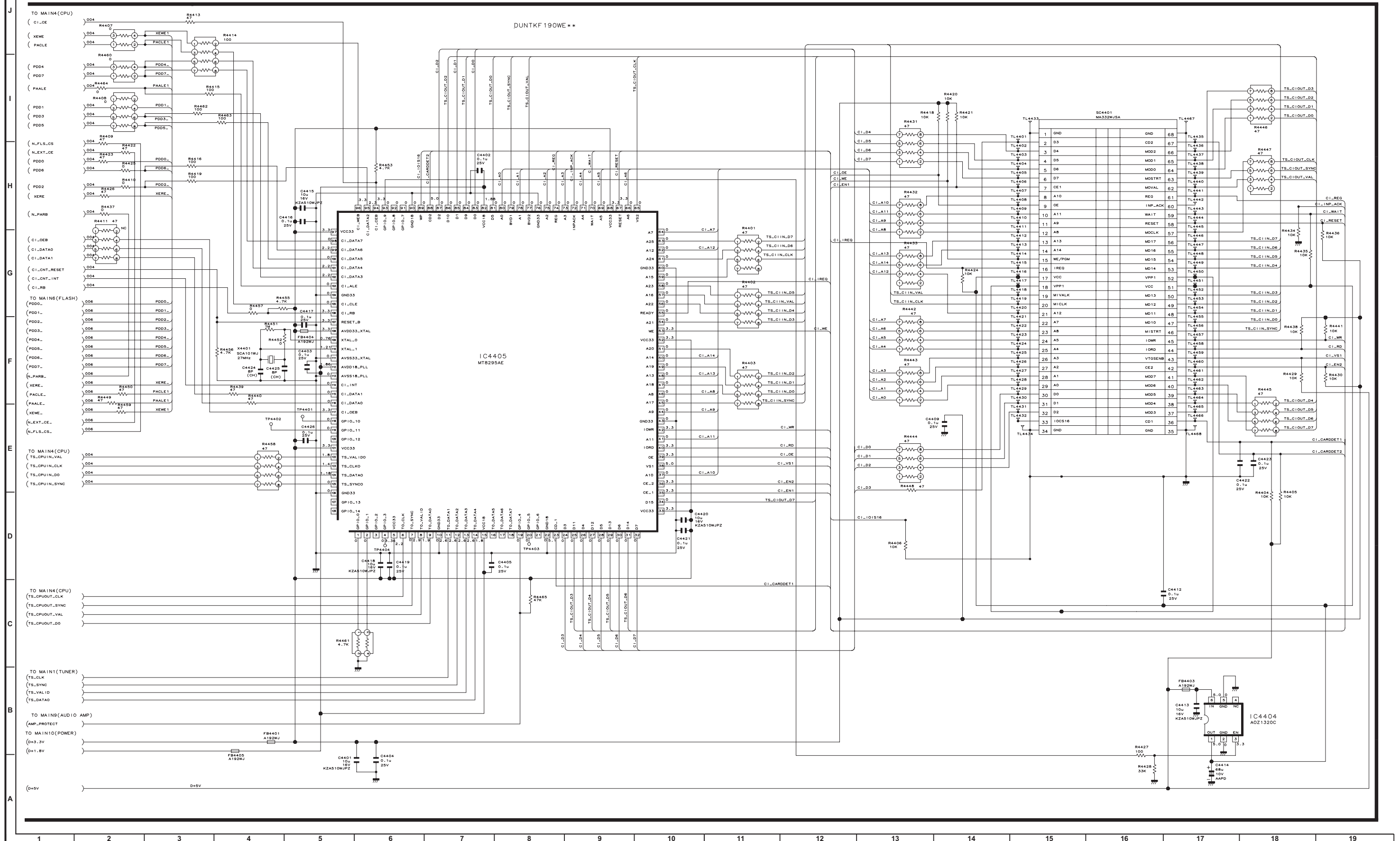
MAIN Unit-6

MAIN6 (FLASH) CONFIDENTIAL



## MAIN Unit-7

MAIN7(DTV CI)





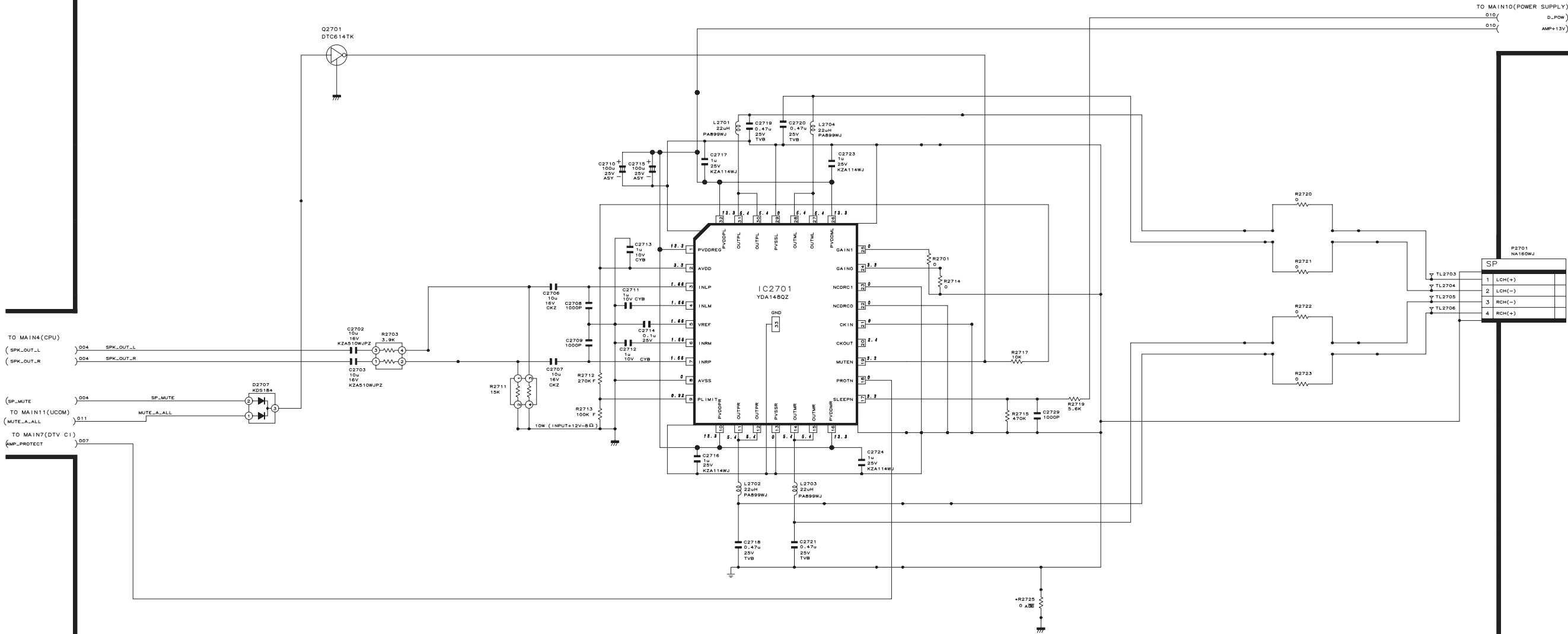
MAIN8 (PANEL)



MAIN Unit-9

MAIN9(AUDIO AMP)

DUNTKE 190WE\*\*

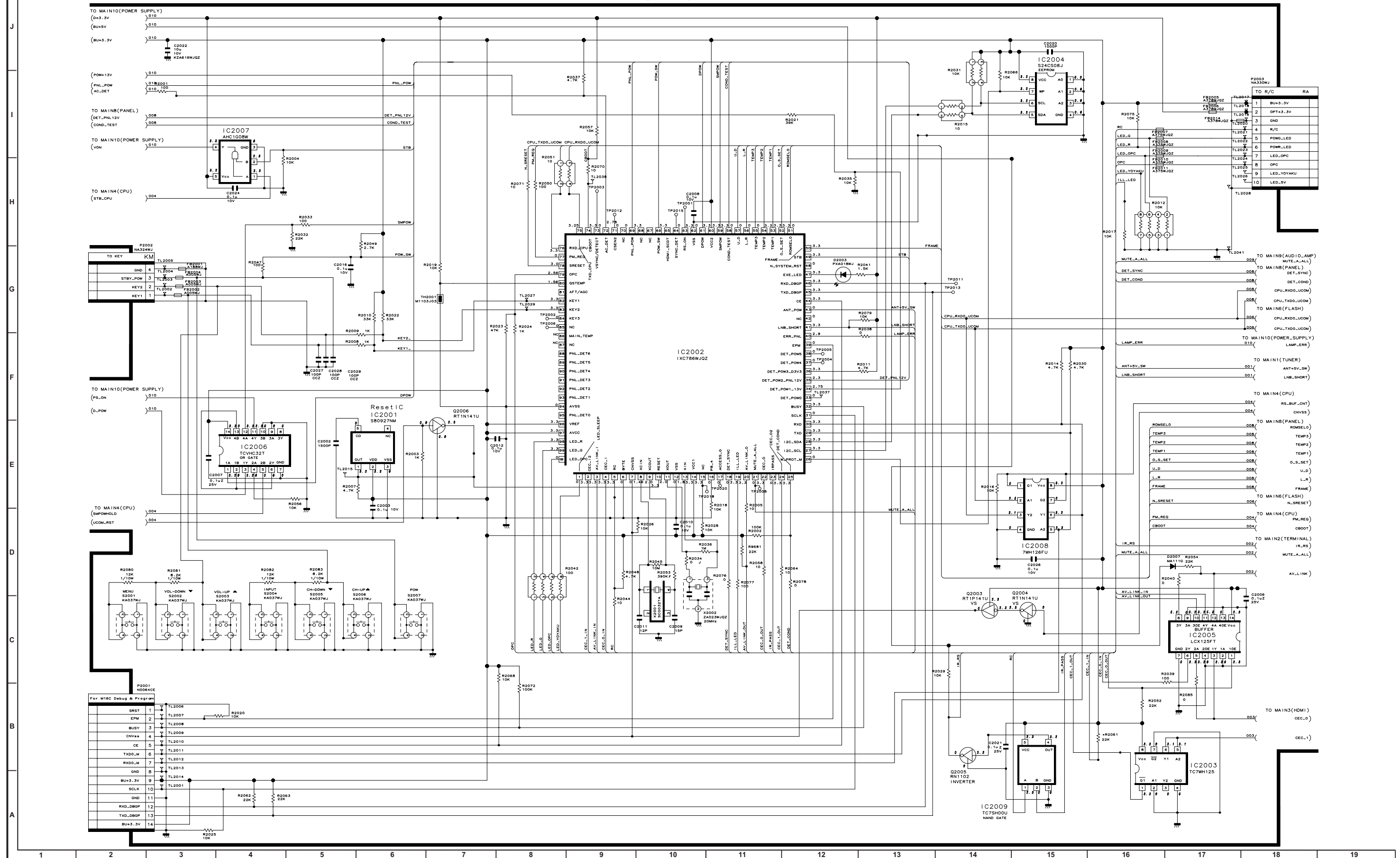


## MAIN10(POWER)



## MAIN Unit-11

MAIN11 (UCOM)



# SHARP PARTS GUIDE

No. S59Z5LC32D77C



## LCD COLOUR TELEVISION

**LC-32DH77E/RU/S**  
**LC-42DH77E/RU/S**  
**MODELS LC-46DH77E/RU/S**

### CONTENTS

- |  |   |
|--|---|
| [1] PRINTED WIRING BOARD<br>ASSEMBLIES (LC-32DH77E/RU/S) | [7] LCD PANEL MODULE ASSEMBLY<br>(LC-32DH77E/RU/S)  |
| [2] PRINTED WIRING BOARD<br>ASSEMBLIES (LC-42DH77E/RU/S) | [8] CABINET PARTS<br>(LC-42DH77E/RU/S)              |
| [3] PRINTED WIRING BOARD<br>ASSEMBLIES (LC-46DH77E/RU/S) | [9] LCD PANEL MODULE ASSEMBLY<br>(LC-42DH77E/RU/S)  |
| [4] LCD PANEL  | [10] CABINET PARTS<br>(LC-46DH77E/RU/S)             |
| [5] DUNTKF190FM01 (MAIN Unit)                            | [11] LCD PANEL MODULE ASSEMBLY<br>(LC-46DH77E/RU/S) |
| [6] CABINET PARTS<br>(LC-32DH77E/RU/S)                   |   |

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[1] PRINTED WIRING BOARD ASSEMBLIES (LC-32DH77E/RU/S)</b>					
N	DUNTKF190FM01	CE	N	P	MAIN Unit (B3KUXH77CG)
N	DUNTKF096FM04	AR	N	P	LED Unit (B3KUXH77CJ)
N	RUNTKA456WJQZ	BT	N	P	POWER/INVERTER Unit (Unit Replacement Item)
<b>[2] PRINTED WIRING BOARD ASSEMBLIES (LC-42DH77E/RU/S)</b>					
N	DUNTKF190FM01	CE	N	P	MAIN Unit (B3KUXH77CG)
N	DUNTKF096FM04	AR	N	P	LED Unit (B3KUXH77CJ)
N	DUNTKF266FM17	AL	N	P	KEY Unit (B3KUXH77CK)
N	RDENCA322WJQZ	BP	N	P	POWER Unit (Unit Replacement Item)
N	RUNTKA534WJZZ	BP		J	INVERTER Unit (Unit Replacement Item)
<b>[3] PRINTED WIRING BOARD ASSEMBLIES (LC-46DH77E/RU/S)</b>					
N	DUNTKF190FM01	CE	N	P	MAIN Unit (B3KUXH77CG)
N	DUNTKF096FM04	AR	N	P	LED Unit (B3KUXH77CJ)
N	DUNTKF266FM17	AL	N	P	KEY Unit (B3KUXH77CK)
N	RDENCA308WJQZ	BR		P	POWER Unit (Unit Replacement Item)
N	RUNTKA538WJZZ	BF		J	INVERTER (1) Unit (Unit Replacement Item)
N	RUNTKA539WJZZ	BF		J	INVERTER (2) Unit (Unit Replacement Item)
<b>[4] LCD PANEL</b>					
N	R1LK315D3LW40Y		N	P	32" LCD Panel Module
N	R1LK420D3LW80Y	DN	N	P	42" LCD Panel Module
N	R1LK460D3LW80Y	DX	N	P	46" LCD Panel Module
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
C501	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C502	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C503	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C507	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C508	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C510	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C511	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C519	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C520	VCKYCZ1HB221KY	AA		J	Capacitor 220p 50V Ceramic
C521	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C522	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C523	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C524	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C525	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C526	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C527	VCKYCZ1HB331KY	AA		J	Capacitor 330p 50V Ceramic
C528	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C529	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C530	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C531	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C532	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C533	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C534	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C535	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C536	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C537	VCKYCZ1HB471KY	AB		J	Capacitor 470p 50V Ceramic
C538	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C539	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C540	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C541	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C542	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C543	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C544	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C545	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C546	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C547	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C548	VCCCCZ1HH560JY	AB		J	Capacitor 56p 50V Ceramic
C549	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C550	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C551	VGERMZ1CN477MY	AE		J	Capacitor 470 16V Capacitor(AL)
C553	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C554	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C555	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C556	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C557	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C558	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C559	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C560	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C562	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C564	VCCCCZ1HH150JY	AB		J	Capacitor 15p 50V Ceramic
C565	VCKYCZ1EB472KY	AB		J	Capacitor 4700p 25V Ceramic
C566	VCKYCZ1EB472KY	AB		J	Capacitor 4700p 25V Ceramic
C567	VCEASY1EN107MY	AC		J	Capacitor 100 25V Electrolytic
C568	VCEASY1EN107MY	AC		J	Capacitor 100 25V Electrolytic
C569	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C570	RC-KZA067WJZZY	AB		J	Capacitor 4.7 10V Ceramic
C571	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C572	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C573	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
C575	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C576	RC-KZA067WJZZY	AB		J	Capacitor 4.7 10V Ceramic
C577	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C578	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C579	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C580	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C581	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C582	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C583	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C584	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C585	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C586	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C587	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C588	VCCCCZ1HH470JY	AB		J	Capacitor 47p 50V Ceramic
C591	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C592	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C593	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C1101	VCKYCY1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1103	VCERML1CN107MY	AC		J	Capacitor 100 16V Capacitor(AL)
C1105	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1109	VCKYCY1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1110	VCKYCY1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1113	VCERMZ1CN477MY	AE		J	Capacitor 470 16V Capacitor(AL)
C1118	VCKYCY1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1119	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C1121	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1122	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C1138	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1141	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C1145	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C1153	VCKYCY1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C1154	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C1507	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1508	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1509	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C1510	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C1511	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1512	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1514	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C1515	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1516	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C1517	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1518	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C1519	RC-KZA520WJQZY	AA		J	Capacitor 10 10V Ceramic
C1520	RC-KZA520WJQZY	AA		J	Capacitor 10 10V Ceramic
C1522	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C1523	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C1531	RC-KZA520WJQZY	AA		J	Capacitor 10 10V Ceramic
C2002	VCKYCY1HB152KY	AB		J	Capacitor 1500p 50V Ceramic
C2003	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2006	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C2007	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C2008	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2009	VCCCCZ1HH150JY	AB		J	Capacitor 15p 50V Ceramic
C2010	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2011	VCCCCZ1HH120JY	AB		J	Capacitor 12p 50V Ceramic
C2012	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2016	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2020	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2021	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C2022	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C2024	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2026	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2027	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2028	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2029	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C2602	VCKYCY1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C2702	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C2703	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C2706	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C2707	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C2708	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2709	VCKYCY1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C2710	VCEASY1EN107MY	AC		J	Capacitor 100 25V Electrolytic
C2711	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C2712	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C2713	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C2714	VCKYCY1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C2715	VCEASY1EN107MY	AC		J	Capacitor 100 25V Electrolytic
C2716	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C2717	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C2718	VCKYTV1EB474KY	AC		J	Capacitor 0.47 25V Ceramic
C2719	VCKYTV1EB474KY	AC		J	Capacitor 0.47 25V Ceramic
C2720	VCKYTV1EB474KY	AC		J	Capacitor 0.47 25V Ceramic
C2721	VCKYTV1EB474KY	AC		J	Capacitor 0.47 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
C2723	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C2724	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C2729	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3302	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3304	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3306	RC-KZA067WJZZY	AB		J	Capacitor 4.7 10V Ceramic
C3309	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3311	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3312	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3315	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3317	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3318	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3319	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3320	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3321	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3322	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3323	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3324	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3325	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3326	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3327	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3329	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3331	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3332	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3333	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3334	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3335	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3336	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3337	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3338	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3340	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3342	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3343	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3344	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3345	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3346	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3347	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3348	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3349	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3350	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C3351	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3352	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3353	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3355	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3356	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3357	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3358	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3359	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3360	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3361	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3362	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3363	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3364	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C3365	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3366	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C3367	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C3370	VCCCCZ1HH120JY	AB		J	Capacitor 12p 50V Ceramic
C3371	VCCCCZ1HH100DY	AB		J	Capacitor 10p 50V Ceramic
C3372	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3373	VCKYCZ1EB472KY	AB		J	Capacitor 4700p 25V Ceramic
C3374	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3375	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3376	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3377	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3378	VCKYCY1HB472KY	AA		J	Capacitor 4700p 50V Ceramic
C3379	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3380	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3381	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3382	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3383	VCKYCZ1EB472KY	AB		J	Capacitor 4700p 25V Ceramic
C3384	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3385	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3386	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3387	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3388	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3389	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3390	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3391	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3392	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3393	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3394	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3395	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3396	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3397	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C3398	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
C3399	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3400	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3401	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3402	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3403	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3404	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3405	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3406	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3407	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3408	VCKYCZ1AB473KY	AB		J	Capacitor 0.047 10V Ceramic
C3501	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3502	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3503	VCAAPE0JJ107MY	AE		J	Capacitor 100 6.3V Electrolytic
C3504	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3505	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3506	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3507	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3508	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3509	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3510	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3511	RC-KZA576WJQZY	AB		J	Capacitor 0.22 6.3V Ceramic
C3512	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3513	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3514	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3515	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C3516	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3517	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3518	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3519	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3520	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3521	RC-KZA576WJQZY	AB		J	Capacitor 0.22 6.3V Ceramic
C3522	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C3523	RC-KZA576WJQZY	AB		J	Capacitor 0.22 6.3V Ceramic
C3524	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C4401	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C4402	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4403	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4404	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4405	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4409	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4412	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4413	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C4414	VCAAPD1AJ686MY	AE		J	Capacitor 68 10V Electrolytic
C4415	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C4416	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4417	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4418	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C4419	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4420	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C4421	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4422	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4423	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C4424	VCCCCZ1HH8R0DY	AA		J	Capacitor 80p 50V Ceramic
C4425	VCCCCZ1HH8R0DY	AA		J	Capacitor 80p 50V Ceramic
C4426	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C8455	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8456	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8457	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8458	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8460	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8468	VCKYCZ1HB102KY	AB		J	Capacitor 1000p 50V Ceramic
C8469	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C8470	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C8471	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9601	VCKYCZ1HB222KY	AB		J	Capacitor 2200p 50V Ceramic
C9602	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9603	RC-KZA211WJZZY	AB		J	Capacitor 2.2 25V Ceramic
C9604	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9605	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9606	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9607	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9608	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C9609	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9610	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9611	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9612	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C9613	VCKYCZ1AB104KY	AB		J	Capacitor 0.1 10V Ceramic
C9614	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9615	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C9616	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C9618	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9619	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9620	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9621	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9622	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
C9623	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9624	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9625	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9626	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C9627	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9628	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9629	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C9630	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9631	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9632	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
C9633	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9634	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9635	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9636	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9638	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9639	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9640	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9641	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9642	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9643	VCKYCZ1CB223KY	AC		J	Capacitor 0.022 16V Ceramic
C9644	RC-KZA616WJQZY	AB		J	Capacitor 10 10V Ceramic
C9645	VCKYCZ1EB682KY	AB		J	Capacitor 6800p 25V Ceramic
C9646	RC-KZA510WJPZY	AB		J	Capacitor 10 16V Ceramic
C9647	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9648	VCKYCZ1EF104ZY	AA		J	Capacitor 0.1 25V Ceramic
C9649	RC-KZA383WJZZY	AC		J	Capacitor 10 25V Ceramic
C9650	VCKYCY1AB105KY	AB		J	Capacitor 1 10V Ceramic
C9651	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9652	RC-KZA114WJZZY	AB		J	Capacitor 1 25V Ceramic
C9654	VCAAPD1DJ476MY	AF		J	Capacitor 47 20V Electrolytic
C9655	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9656	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9657	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9658	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9659	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9662	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9663	VCCCCZ1HH101JY	AB		J	Capacitor 100p 50V Ceramic
C9666	VCKYCZ1EB103KY	AA		J	Capacitor 0.01 25V Ceramic
D504	RH-EXA512WJZZY	AB		J	Diode MAZ8039GHL
D505	RH-EXA554WJZZY	AB		J	Diode MAZ8150GML
D507	RH-EXA523WJZZY	AB		J	Diode MAZ8056GML
D508	RH-EXA523WJZZY	AB		J	Diode MAZ8056GML
D509	RH-EXA523WJZZY	AB		J	Diode MAZ8056GML
D510	RH-EXA523WJZZY	AB		J	Diode MAZ8056GML
D512	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D513	RH-EXA554WJZZY	AB		J	Diode MAZ8150GML
D514	RH-EXA550WJZZY	AB		J	Diode MAZ8130GML
D515	RH-EXA523WJZZY	AB		J	Diode MAZ8056GML
D516	RH-EXA535WJZZY	AM		J	Diode MAZ8082GML
D517	RH-EXA535WJZZY	AM		J	Diode MAZ8082GML
D518	RH-EXA535WJZZY	AM		J	Diode MAZ8082GML
D519	RH-EXA535WJZZY	AM		J	Diode MAZ8082GML
D520	VHGPFSV51V-1	AG		J	Diode Photodiode
D521	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML
D522	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML
D523	VHDMAZ9120H-1Y	AC		J	Diode MAZ91200H0L
D524	VHDMAZ9120H-1Y	AC		J	Diode MAZ91200H0L
D525	RH-EX0259TAZZY	AB		J	Diode PDZ5.6B,115
D526	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D527	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D528	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D529	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D530	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D1101	RH-EXA535WJZZY	AM		J	Diode MAZ8082GML
D1102	VHDMA111G+-1Y	AA		J	Diode MA2J1110GL
D1501	RH-EXA523WJZZY	AB		J	Diode MAZ8056GML
D1508	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D1509	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D1511	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D1512	VHDB520S30-1Y	AC		J	Diode RB520S-30TE61
D2003	RH-PXA018WJZZY	AC		J	Diode GM1HD55200A
D2007	VHDMA111G+-1Y	AA		J	Diode MA2J1110GL
D2707	VHDKDS184/-1Y	AB		J	Diode KDS184-RTK/P
D3301	RH-PXA018WJZZY	AC		J	Diode GM1HD55200A
D3303	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3304	VHD1SS226/-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3305	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML
D3306	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML
D3307	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML
D3308	VHD1SS226/-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3309	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3310	RH-EXA512WJZZY	AB		J	Diode MAZ8039GHL
D3311	VHD1SS226/-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3312	VHD1SS226/-1Y	AC		J	Diode 1SS226(T5L,F,T)
D3313	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
D3314	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3315	RH-EXA512WJZZY	AB		J	Diode MAZ8039GHL
D3316	VHD1SS226//--1Y	AC		J	Diode 1SS226(T5L,F,T)
D3317	RH-EXA512WJZZY	AB		J	Diode MAZ8039GHL
D3318	RH-EXA520WJZZY	AB		J	Diode MAZ8051GML
D3319	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3320	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3321	VHD1SS226//--1Y	AC		J	Diode 1SS226(T5L,F,T)
D3322	VHD1SS226//--1Y	AC		J	Diode 1SS226(T5L,F,T)
D3323	RH-EXA512WJZZY	AB		J	Diode MAZ8039GHL
D3324	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3325	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3326	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3327	RH-EXA512WJZZY	AB		J	Diode MAZ8039GHL
D3328	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D3329	RH-EXA547WJZZY	AB		J	Diode MAZ8120GML
D8457	VHD1PS184++-1Y	AB		J	Diode 1PS184,115
D9601	VHDM111G++-1Y	AA		J	Diode MA2J1110GL
D9602	RH-EXA526WJZZY	AB		J	Diode MAZ8062GML
D9603	VHDM111G++-1Y	AA		J	Diode MA2J1110GL
D9604	VHDM111G++-1Y	AA		J	Diode MA2J1110GL
D9605	RH-EXA514WJZZY	AB		J	Diode MAZ8043GML
D9606	VHD1SS226//--1Y	AC		J	Diode 1SS226(T5L,F,T)
D9607	VHDM111G++-1Y	AA		J	Diode MA2J1110GL
D9609	VHDM111G++-1Y	AA		J	Diode MA2J1110GL
D9610	VHDB056L40-1Y	AC		J	Diode RB056L-40TE25
D9611	VHDB056L40-1Y	AC		J	Diode RB056L-40TE25
D9612	VHDB056L40-1Y	AC		J	Diode RB056L-40TE25
D9613	VHDB056L40-1Y	AC		J	Diode RB056L-40TE25
D9614	VHDM111G++-1Y	AA		J	Diode MA2J1110GL
D9616	VHDB056L40-1Y	AC		J	Diode RB056L-40TE25
E3301	PRDARA577WJFW	AF		J	Battery Heat Sink
FB501	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB502	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB503	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB504	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB505	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB506	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB507	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB508	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB510	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB511	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB512	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB513	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB514	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB515	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB516	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB517	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB518	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB519	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB520	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB521	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB522	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB523	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB524	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB525	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB526	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB527	RBLN-0061TAZZY	AD		J	Ferrite Bead
FB528	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB529	RBLN-0077TAZZY	AB		J	Ferrite Bead
FB1512	RBLN-A375WJQZY	AA		J	Ferrite Bead
FB2001	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB2002	RBLN-A005WJZZY	AA		J	Ferrite Bead
FB2003	RBLN-A005WJZZY	AA		J	Ferrite Bead
FB2004	RBLN-A005WJZZY	AA		J	Ferrite Bead
FB2005	RBLN-A378WJQZY	AA		J	Ferrite Bead
FB2006	RBLN-A378WJQZY	AA		J	Ferrite Bead
FB2007	RBLN-A375WJQZY	AA		J	Ferrite Bead
FB2008	RBLN-A375WJQZY	AA		J	Ferrite Bead
FB2009	RBLN-A375WJQZY	AA		J	Ferrite Bead
FB2010	RBLN-A375WJQZY	AA		J	Ferrite Bead
FB2011	RBLN-A375WJQZY	AA		J	Ferrite Bead
FB2014	RBLN-A378WJQZY	AA		J	Ferrite Bead
FB3301	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB3302	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB3303	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB3304	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB3305	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB3306	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB3308	RBLN-A188WJZZY	AA		J	Ferrite Bead
FB4401	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4403	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4404	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB4405	RBLN-A192WJZZY	AA		J	Ferrite Bead
FB9603	RBLN-0207TAZZY	AB		J	Ferrite Bead

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
FB9604	RBLN-0207TAZZY	AB		J	Ferrite Bead
FB9605	RBLN-0207TAZZY	AB		J	Ferrite Bead
FB9606	RBLN-0207TAZZY	AB		J	Ferrite Bead
FB9607	RBLN-0207TAZZY	AB		J	Ferrite Bead
FB9608	RBLN-0207TAZZY	AB		J	Ferrite Bead
FL501	RFiLN0003TAZZY	AD		J	Filter
FL502	RFiLN0003TAZZY	AD		J	Filter
FL503	RFiLN0003TAZZY	AD		J	Filter
FL504	RFiLN0017TAZZY	AC		J	Filter
FL507	RFiLN0017TAZZY	AC		J	Filter
FL508	RFiLN0017TAZZY	AC		J	Filter
FL509	RFiLN0017TAZZY	AC		J	Filter
FL510	RFiLN0017TAZZY	AC		J	Filter
FL511	RFiLN0017TAZZY	AC		J	Filter
FL512	RFiLN0017TAZZY	AC		J	Filter
FL513	RFiLN0017TAZZY	AC		J	Filter
FL514	RFiLN0003TAZZY	AD		J	Filter
FL515	RFiLN0003TAZZY	AD		J	Filter
FL516	RFiLN0003TAZZY	AD		J	Filter
FL517	RFiLN0017TAZZY	AC		J	Filter
FL3301	RFiLNA119WJZZY	AC		J	Filter
FL3302	RFiLNA119WJZZY	AC		J	Filter
FL3303	RFiLNA119WJZZY	AC		J	Filter
FL3501	RFiLNA119WJZZY	AC		J	Filter
IC501	RH-iXC697WJQZS	AG		J	IC BR24C21F-E2
IC503	VHiT7SET08U1EY	AC		J	IC TC7SET08FU(5L,JF,T
IC504	VHiMM1506XN-1Y	AD		J	IC MM1506XNRE
IC506	VHiM3221EiP-1Y	AK		J	IC MAX3221EIPower
IC507	VHiMM1507XN-1Y	AD		J	IC MM1507XNRE
IC1105	VHiPQ1KA503-1Y	AD		J	IC PQ1KA503MZPH
IC1501	RH-iXC697WJQZS	AH		J	IC EDID PC
IC1504	VHiSi91873-1Q		N	J	IC Si9187ACNU
IC2001	VHiS80927NM-1Y	AC		J	IC S-80927CNMC-G8XT2G
IC2002	RH-iXC786WJN1Q	AM	N	J	IC R5F364A6NFB (Monitor Micon)
IC2003	VHiTC7WH125-1Y	AD		J	IC TC7WH125FK(TE85L,F)
IC2004	VHiS24CS08J-1Y	AE		J	IC S-24CS08AFJ-TB-1G
IC2005	VHiLCX125FT-1Y	AD		J	IC TC74LCX125FT(EL,K)
IC2006	VHiTCVHC32T-1Y	AE		J	IC TC74VHC32FT(EL)
IC2007	VHiAHC1G08W-1Y	AD		J	IC 74AHC1G08GW/G,125
IC2008	VHi7WH126FU-1Y	AE		J	IC TC7WH126FU(TE12L,F)
IC2009	VHiTC7SH00U-1Y	AC		J	IC TC7SH00FU(T5L,JF,T
IC2601	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC2701	VHiYDA148QZ-1Y	AL		J	IC YDA148-QZE2
IC3301	VHiBD6538G+-1Y	AD		J	IC BD6538G-TR
IC3302	RH-iXC773WJQZQ		N	J	IC MT5391UHMJ
IC3501	RH-iXC790WJQZQ		N	J	IC K4T1G164QE-HCF8
IC3502	RH-iXC790WJQZQ		N	J	IC K4T1G164QE-HCF8
IC4404	VHiAOZ1320C-1Y	AE		J	IC AOZ1320CI-04
IC4405	VHiMT8295AE-1Q		N	J	IC MT8295AE
IC8401	RH-iXC721WJQZQ	AR		J	IC HY27US08121B-TPCB
IC8451	VHi7WH126FU-1Y	AE		J	IC TC7WH126FU(TE12L,F)
IC8452	VHiLCX157FT-1Y	AD		J	IC TC74LCX157FT(EKJ)
IC8454	VHiAHC1G08W-1Y	AD		J	IC 74AHC1G08GW/G,125
IC8455	VHiBR24S64F-1Y	AF		J	IC BR24S64F-WE2
IC9601	VHiHC2G66DP-1Y	AD		J	IC 74HC2G66DP,125
IC9603	VHiMM3141YN-1Y	AC		J	IC MM3141YNRE
IC9605	VHiLV5893M+-1Y	AE		J	IC LV5893M-TE-L-E
IC9608	VHiLV5893M+-1Y	AE		J	IC LV5893M-TE-L-E
IC9609	VHiTCR5SB33-1Y	AC		J	IC TCR5SB33(TE85L,F)
IC9610	VHiPQ1LAX95-1Y	AD		J	IC PQ1LAX95MSPQ
J501	QJAKJ0008GEZZ	AD		J	Jack
J502	QJAKFA061WJZZ	AE		J	Jack
J503	QJAKGA131WJZZ	AG		J	Jack
J504	QJAKJ0047CEZZ	AD		J	Jack
J505	QJAKGA079WJZZ	AD		J	Jack
J506	QJAKFA061WJZZ	AE		J	Jack
J3301	QSOCZA172WJQZ	AD		J	Jack
L502	VPCNN120J1R9NY	AB		J	Peaking 12μH
L1101	VPSBN100J1R2NY	AB		J	Peaking 10μH
L1103	VPSBN2R2JR54NY	AB		J	Peaking 2.2μH
L1104	VPSBN2R2JR54NY	AB		J	Peaking 2.2μH
L2601	RCiLFA119WJZZY	AE		J	Coil
L2602	RCiLFA119WJZZY	AE		J	Coil
L2603	RCiLFA119WJZZY	AE		J	Coil
L2604	RCiLFA119WJZZY	AE		J	Coil
L2605	RCiLFA119WJZZY	AE		J	Coil
L2606	RCiLFA119WJZZY	AE		J	Coil
L2701	RCiLPA899WJZZY	AC		J	Coil
L2702	RCiLPA899WJZZY	AC		J	Coil
L2703	RCiLPA899WJZZY	AC		J	Coil
L2704	RCiLPA899WJZZY	AC		J	Coil
L3301	RCiLFA228WJZZY	AD		J	Coil
L9602	RCiLPA899WJZZY	AC		J	Coil
L9604	RCiLPA899WJZZY	AC		J	Coil
L9605	RCiLPA758WJQZY	AC		J	Coil

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
L9606	RCILPA759WJQZY	AD		J	Coil
LUG9601	QLUGHA009WJZZY	AC		J	Lug
LUG9602	QLUGHA009WJZZY	AC		J	Lug
LUG9603	QLUGHA009WJZZY	AC		J	Lug
LUG9604	QLUGHA009WJZZY	AC		J	Lug
LUG9605	QLUGHA009WJZZY	AC		J	Lug
LUG9606	QLUGHA009WJZZY	AC		J	Lug
LUG9607	QLUGHA009WJZZY	AC		J	Lug
LUG9608	QLUGHA009WJZZY	AC		J	Lug
P2001	QPLGN0064CEZZY	AE		J	Plug
P2002	QPLGNA324WJZZY	AC		J	Plug
P2003	QPLGNA330WJZZY	AD		J	Plug
P2601	QCNCWA671WJQZY	AH		J	Plug
P2602	QPLGNA335WJZZY	AD		J	Plug
P2603	QPLGNA144WJZZY	AF		J	Plug
P2701	QPLGNA160WJZZY	AD		J	Plug
P3301	QPLGNA144WJZZY	AF		J	Plug
P9601	QPLGNA168WJZZY	AF		J	Plug
P9602	QPLGNA329WJZZY	AD		J	Plug
Q501	VSIMH23T110-1Y	AC		J	Transistor IMH23T110
Q502	VSIMH23T110-1Y	AC		J	Transistor IMH23T110
Q503	VS2SA1530AR-1Y	AB		J	Transistor 2SA1530A-T112-1R
Q504	VS2SA1530AR-1Y	AB		J	Transistor 2SA1530A-T112-1R
Q505	VSLTC144EEB-1Y	AA		J	Transistor LTC144EEBFS8TL
Q506	VSIMH23T110-1Y	AC		J	Transistor IMH23T110
Q507	VS2SA1530AR-1Y	AB		J	Transistor 2SA1530A-T112-1R
Q508	VS2SA1530AR-1Y	AB		J	Transistor 2SA1530A-T112-1R
Q509	VSIMH23T110-1Y	AC		J	Transistor IMH23T110
Q1101	RH-TXA026WJZZY	AD		J	Transistor PBL2001D,115
Q1102	VSLTA124EEB-1Y	AA		J	Transistor LTA124EEBFS8TL
Q1103	VSLTC144EEB-1Y	AA		J	Transistor LTC144EEBFS8TL
Q1104	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R
Q1106	VS2SA1530AR-1Y	AB		J	Transistor 2SA1530A-T112-1R
Q1508	VSKTA1535T+-1Y	AC		J	Transistor KTA1535T-RTK/P
Q1509	VSKRC402E+-1Y	AB		J	Transistor
Q2003	VSRT1P141U/-1Y	AB		J	Transistor RT1P141U-T111-1
Q2004	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2005	VSRN1102///-1Y	AB		J	Transistor RN1102(TE85L,F)
Q2006	VSRT1N141U/-1Y	AB		J	Transistor RT1N141U-T111-1
Q2603	VSLTC144EEB-1Y	AA		J	Transistor LTC144EEBFS8TL
Q2701	VSDTC614TK+-1Y	AB		J	Transistor DTC614TKT146
Q9601	VSLTC144EEB-1Y	AA		J	Transistor LTC144EEBFS8TL
Q9602	VSLTA124EEB-1Y	AA		J	Transistor LTA124EEBFS8TL
Q9604	RH-TXA026WJZZY	AD		J	Transistor PBL2001D,115
Q9607	VS2SC3928AR-1Y	AB		J	Transistor 2SC3928A-T112-1R
Q9608	VSLTC144EEB-1Y	AA		J	Transistor LTC144EEBFS8TL
Q9609	VSLTA124EEB-1Y	AA		J	Transistor LTA124EEBFS8TL
Q9610	VSRSS050P03-1Y	AG		J	Transistor RSS050P03TB
R504	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R505	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R506	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R507	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R508	VRS-CZ1JF333FY	AA		J	Resistor 33k 1/16W Metal Oxide
R511	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R512	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R513	VRS-TQ2EF680JY	AA		J	Resistor 68 1/4W Metal Oxide
R514	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R515	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R516	VRS-TQ2EF101JY	AA		J	Resistor 100 1/4W Metal Oxide
R517	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R518	VRS-TQ2EF680JY	AA		J	Resistor 68 1/4W Metal Oxide
R519	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R520	VRS-CZ1JF333FY	AA		J	Resistor 33k 1/16W Metal Oxide
R522	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R523	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R524	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R530	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R531	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R533	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R535	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R537	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R538	VRK-SA1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Composition
R541	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R544	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R547	VRS-CG1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R549	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R550	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R551	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R552	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R553	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R554	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R555	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R556	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R557	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R558	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
R559	VRS-TV1JD221JY	AA		J	Resistor 220 1/10W Metal Oxide
R560	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R561	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R562	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R563	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R564	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R565	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R566	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R567	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R568	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R569	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R570	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R571	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R572	VRK-SA1JF331JY	AA		J	Resistor 330 1/16W Metal Composition
R573	VRK-SA1JF331JY	AA		J	Resistor 330 1/16W Metal Composition
R574	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R575	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R576	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R577	VRK-SA1JF272JY	AA		J	Resistor 2.7k 1/16W Metal Composition
R578	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R579	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R580	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R581	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R582	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R584	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R586	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R588	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R589	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R590	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R591	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R592	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R593	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R594	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R595	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R597	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R599	VRS-TQ2EF750JY	AA		J	Resistor 75 1/4W Metal Oxide
R600	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R601	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R602	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R603	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R604	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R605	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R606	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R607	VRS-TW2ED101JY	AA		J	Resistor 100 1/4W Metal Oxide
R608	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R609	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R610	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R611	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R612	VRS-CZ1JF561JY	AA		J	Resistor 560 1/16W Metal Oxide
R613	VRS-TV1JD101JY	AA		J	Resistor 100 1/10W Metal Oxide
R614	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R615	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R616	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R617	VRS-CZ1JF221JY	AA		J	Resistor 220 1/16W Metal Oxide
R618	VRS-CZ1JF561JY	AA		J	Resistor 560 1/16W Metal Oxide
R619	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R620	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R621	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R622	VRS-CZ1JF564JY	AB		J	Resistor 560k 1/16W Metal Oxide
R623	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R624	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R625	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R626	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R629	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R630	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R631	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R633	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R634	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R635	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R636	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R637	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R638	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R639	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R640	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1101	VRS-CZ1JF561JY	AA		J	Resistor 560 1/16W Metal Oxide
R1102	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1104	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1105	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1112	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1113	VRS-CZ1JF392JY	AA		J	Resistor 3.9k 1/16W Metal Oxide
R1115	VRS-CZ1JF391JY	AA		J	Resistor 390 1/16W Metal Oxide
R1116	VRS-CZ1JF151JY	AA		J	Resistor 150 1/16W Metal Oxide
R1117	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1118	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1119	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
R1121	VRS-CZ1JF391JY	AA		J	Resistor 390 1/16W Metal Oxide
R1126	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R1129	VRK-SA1JF222JY	AB		J	Resistor 2.2k 1/16W Metal Composition
R1131	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1132	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1133	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1134	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1135	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1507	VRS-CZ1JF273JY	AA		J	Resistor 27k 1/16W Metal Oxide
R1509	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R1511	VRK-SA1JF473JY	AC		J	Resistor 47k 1/16W Metal Composition
R1512	VRK-SA1JF473JY	AC		J	Resistor 47k 1/16W Metal Composition
R1514	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1516	VRK-SA1JF473JY	AC		J	Resistor 47k 1/16W Metal Composition
R1517	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1519	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1521	VRK-SA1JF473JY	AC		J	Resistor 47k 1/16W Metal Composition
R1522	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1527	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1531	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1536	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1537	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1539	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1541	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1542	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R1543	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R1551	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R1552	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1553	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R1554	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R1555	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1557	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R1558	VRS-CZ1JF331JY	AA		J	Resistor 330 1/16W Metal Oxide
R1559	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R1561	VRK-SA1JF473JY	AC		J	Resistor 47k 1/16W Metal Composition
R1564	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R1584	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2001	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2002	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R2003	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2004	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2005	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2007	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2008	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2009	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R2010	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2011	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2012	VRS-CH1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2014	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2015	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R2016	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2017	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2018	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2019	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2020	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2021	VRS-CZ1JF393JY	AA		J	Resistor 39k 1/16W Metal Oxide
R2022	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R2023	VRS-CZ1JF473FY	AA		J	Resistor 47k 1/16W Metal Oxide
R2024	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R2025	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2026	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2028	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2029	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2030	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2031	VRK-SA1JF103JY	AB		J	Resistor 10k 1/16W Metal Composition
R2032	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2033	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2034	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2035	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2036	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R2037	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2038	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2039	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2040	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2041	VRS-CZ1JF152JY	AA		J	Resistor 1.5k 1/16W Metal Oxide
R2042	VRS-CG1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2044	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2045	VRS-CY1JF106JY	AA		J	Resistor 10M 1/16W Metal Oxide
R2047	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2048	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R2049	VRS-CZ1JF272FY	AA		J	Resistor 2.7k 1/16W Metal Oxide
R2050	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2051	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R2052	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2053	VRS-CY1JF394FY	AA		J	Resistor 390k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
R2054	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2056	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2057	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2058	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2061	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2062	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2063	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2064	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2066	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2068	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2070	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2071	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R2072	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R2075	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2076	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2077	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R2078	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2079	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2080	VRS-TV1JD123JY	AA		J	Resistor 12k 1/10W Metal Oxide
R2081	VRS-TV1JD822JY	AA		J	Resistor 8.2k 1/10W Metal Oxide
R2082	VRS-TV1JD123JY	AA		J	Resistor 12k 1/10W Metal Oxide
R2083	VRS-TV1JD822JY	AA		J	Resistor 8.2k 1/10W Metal Oxide
R2085	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2601	VRK-SB1FF223JY	AA		J	Resistor 22k 1/32W Metal Composition
R2602	VRK-SB1FF223JY	AA		J	Resistor 22k 1/32W Metal Composition
R2603	VRS-CZ1JF223FY	AA		J	Resistor 22k 1/16W Metal Oxide
R2604	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R2605	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R2608	VRK-SB1FF102JY	AC		J	Resistor 1k 1/32W Metal Composition
R2611	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R2613	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2619	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2620	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2627	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2630	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2632	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2633	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2634	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2635	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2636	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R2637	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2639	VRS-CZ1JF104JY	AA		J	Resistor 100k 1/16W Metal Oxide
R2701	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2712	VRS-CZ1JF274FY	AA		J	Resistor 270k 1/16W Metal Oxide
R2713	VRS-CZ1JF104FY	AB		J	Resistor 100k 1/16W Metal Oxide
R2714	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R2715	VRS-CZ1JF474JY	AA		J	Resistor 470k 1/16W Metal Oxide
R2717	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R2719	VRS-CZ1JF562JY	AA		J	Resistor 5.6k 1/16W Metal Oxide
R2720	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2721	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2722	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2723	VRS-TV1JD000JY	AA		J	Resistor 0 1/10W Metal Oxide
R2725	VRS-TQ2EF000JY	AB		J	Resistor 0 1/4W Metal Oxide
R3301	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3302	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3305	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3306	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3307	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3308	VRS-CY1JF220JY	AA		J	Resistor 22 1/16W Metal Oxide
R3309	VRS-CZ1JF222JY	AA		J	Resistor 2.2k 1/16W Metal Oxide
R3311	VRS-CY1JF220JY	AA		J	Resistor 22 1/16W Metal Oxide
R3312	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3313	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3316	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3318	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3319	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3320	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R3322	VRS-CZ1JF100JY	AA		J	Resistor 10 1/16W Metal Oxide
R3323	VRS-CZ1JF512FY	AA		J	Resistor 5.1k 1/16W Metal Oxide
R3324	VRS-CG1JF330JY	AA		J	Resistor 33 1/16W Metal Oxide
R3325	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3326	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3327	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3328	VRK-SA1JF222JY	AB		J	Resistor 2.2k 1/16W Metal Composition
R3332	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3333	VRS-CZ1JF561JY	AA		J	Resistor 560 1/16W Metal Oxide
R3334	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3335	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3336	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3337	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3342	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R3343	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3345	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R3346	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide

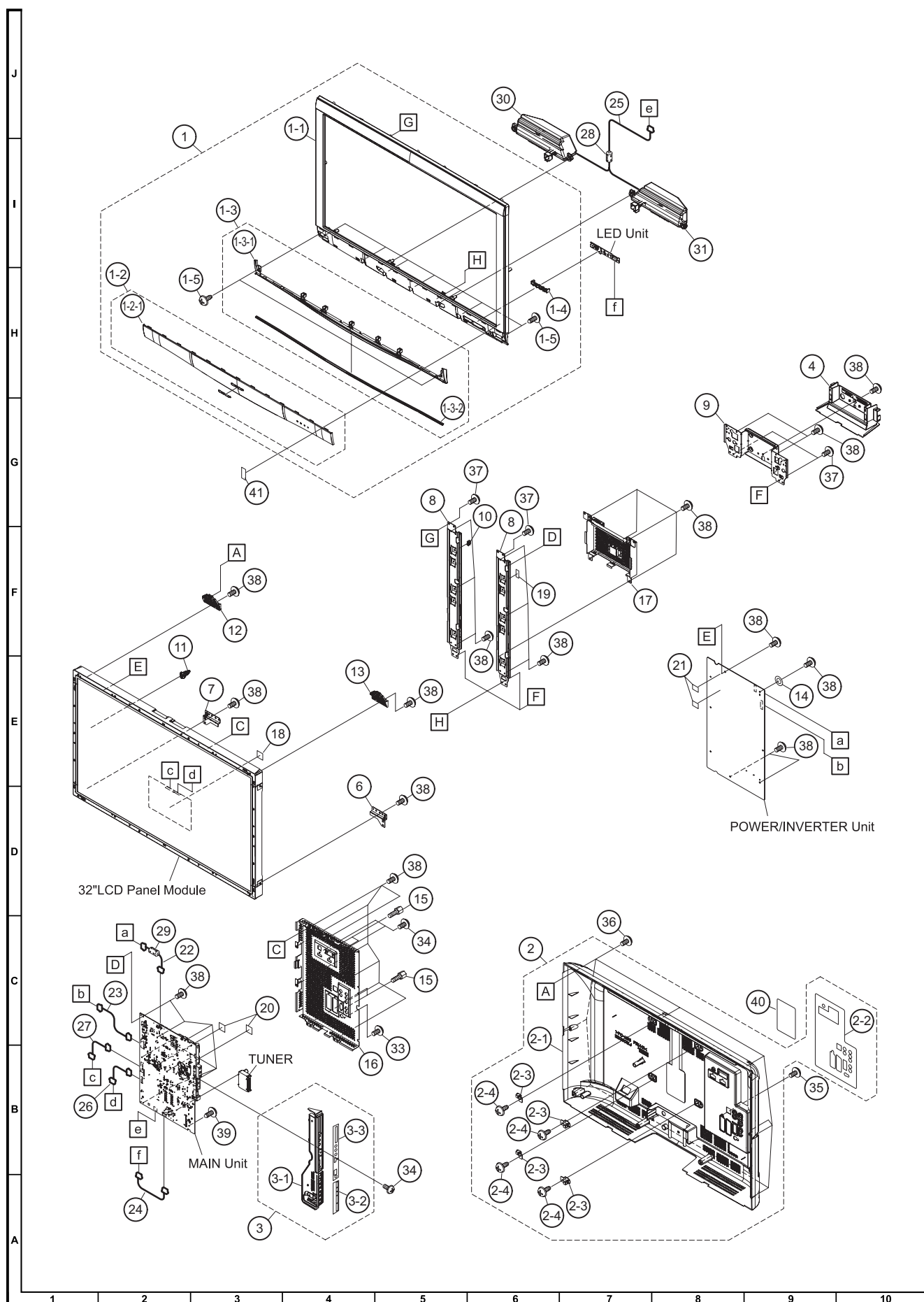


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
R3348	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3350	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R3351	VRS-CZ1JF390JY	AA		J	Resistor 39 1/16W Metal Oxide
R3352	VRS-CZ1JF390JY	AA		J	Resistor 39 1/16W Metal Oxide
R3353	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3354	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3355	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3356	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3357	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3358	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3359	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3360	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3361	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3362	VRS-CZ1JF303JY	AA		J	Resistor 30k 1/16W Metal Oxide
R3363	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3364	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3365	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3366	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3367	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3368	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3369	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3370	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3371	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3372	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3373	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3374	VRS-CZ1JF680JY	AB		J	Resistor 68 1/16W Metal Oxide
R3375	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3376	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3377	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3378	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3379	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3380	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3381	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3382	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3383	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3384	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3389	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3501	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R3502	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R3503	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R3504	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R3505	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R3506	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R3507	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R3508	VRK-SB1FF100JY	AA		J	Resistor 10 1/32W Metal Composition
R3509	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3510	VRS-CZ1JF102FY	AA		J	Resistor 1k 1/16W Metal Oxide
R3511	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R3512	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4401	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4402	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4403	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4404	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4405	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4406	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4407	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R4408	VRS-CG1JF000JY	AB		J	Resistor 0 1/16W Metal Oxide
R4409	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4410	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4411	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4413	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4414	VRS-CG1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4415	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4416	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4418	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4419	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4420	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4421	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4422	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4423	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4424	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4425	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4426	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4427	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4428	VRS-CZ1JF333JY	AA		J	Resistor 33k 1/16W Metal Oxide
R4429	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4430	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4431	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4432	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4433	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4434	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4435	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4436	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4437	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4438	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
R4439	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4440	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4441	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R4442	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4443	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4444	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4445	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4446	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4447	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4448	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4449	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4450	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4451	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R4452	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4453	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4455	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4456	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R4457	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4458	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4459	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R4460	VRK-SA1JF000JY	AB		J	Resistor 0 1/16W Metal Composition
R4461	VRK-SA1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Composition
R4462	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4463	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R4464	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R4465	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R8451	VRS-CZ1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R8452	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8453	VRS-CZ1JF472FY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8454	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8455	VRS-CZ1JF472FY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8458	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R8459	VRS-CG1JF470JY	AA		J	Resistor 47 1/16W Metal Oxide
R8462	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8463	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8465	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8466	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8467	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8468	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8469	VRK-SB1FF472JY	AA		J	Resistor 4.7k 1/32W Metal Composition
R8470	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R8477	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8478	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R8479	VRS-CZ1JF473JY	AA		J	Resistor 47k 1/16W Metal Oxide
R8480	VRK-SA1JF100JY	AB		J	Resistor 10 1/16W Metal Composition
R8481	VRS-CZ1JF332JY	AA		J	Resistor 3.3k 1/16W Metal Oxide
R8482	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9326	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9601	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9605	VRS-CZ1JF474JY	AA		J	Resistor 470k 1/16W Metal Oxide
R9607	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9610	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9612	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9613	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9614	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9615	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9616	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9617	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9620	VRS-CZ1JF562FY	AA		J	Resistor 5.6k 1/16W Metal Oxide
R9621	VRS-CZ1JF133FY	AA		J	Resistor 13k 1/16W Metal Oxide
R9623	VRS-CY1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9624	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9626	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9628	VRS-CZ1JF473FY	AA		J	Resistor 47k 1/16W Metal Oxide
R9629	VRS-CZ1JF133FY	AA		J	Resistor 13k 1/16W Metal Oxide
R9630	VRS-CZ1JF153FY	AA		J	Resistor 15k 1/16W Metal Oxide
R9631	VRS-CZ1JF103FY	AB		J	Resistor 10k 1/16W Metal Oxide
R9632	VRS-CZ1JF391JY	AA		J	Resistor 390 1/16W Metal Oxide
R9633	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9634	VRS-CZ1JF3R9JY	AA		J	Resistor 3.9 1/16W Metal Oxide
R9635	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9636	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9637	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9638	VRS-CZ1JF303FY	AA		J	Resistor 30k 1/16W Metal Oxide
R9639	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9640	VRS-CZ1JF562FY	AA		J	Resistor 5.6k 1/16W Metal Oxide
R9641	VRS-CZ1JF3R9JY	AA		J	Resistor 3.9 1/16W Metal Oxide
R9643	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9645	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9646	VRS-CZ1JF000JY	AA		J	Resistor 0 1/16W Metal Oxide
R9648	VRS-CZ1JF103JY	AA		J	Resistor 10k 1/16W Metal Oxide
R9650	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9652	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9656	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9657	VRS-CZ1JF823FY	AA		J	Resistor 82k 1/16W Metal Oxide

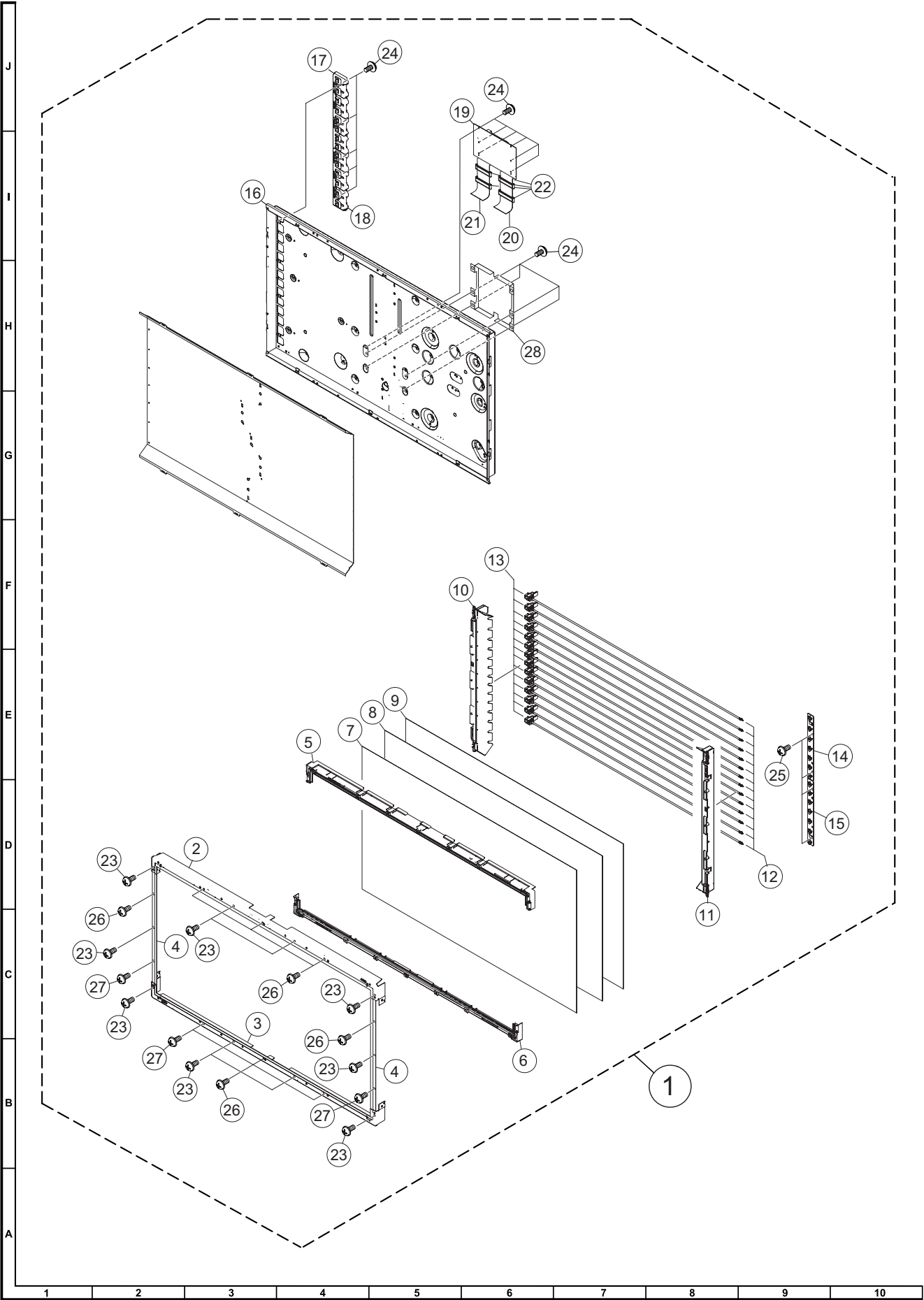
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[5] DUNTKF190FM01 (MAIN Unit)</b>					
R9658	VRS-CZ1JF153FY	AA		J	Resistor 15k 1/16W Metal Oxide
R9664	VRS-CZ1JF105JY	AA		J	Resistor 1M 1/16W Metal Oxide
R9665	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9666	VRS-CZ1JF102JY	AA		J	Resistor 1k 1/16W Metal Oxide
R9669	VRS-CZ1JF101JY	AA		J	Resistor 100 1/16W Metal Oxide
R9681	VRS-CZ1JF223JY	AA		J	Resistor 22k 1/16W Metal Oxide
R9684	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
R9685	VRS-CZ1JF472JY	AA		J	Resistor 4.7k 1/16W Metal Oxide
S2001	QSW-KA037WJZZY	AC		J	Switch
S2002	QSW-KA037WJZZY	AC		J	Switch
S2003	QSW-KA037WJZZY	AC		J	Switch
S2004	QSW-KA037WJZZY	AC		J	Switch
S2005	QSW-KA037WJZZY	AC		J	Switch
S2006	QSW-KA037WJZZY	AC		J	Switch
S2007	QSW-KA037WJZZY	AC		J	Switch
SC501	QSOCNA716WJZZ	AM		J	Socket
SC502	QSOCZA161WJZZ	AG		J	Socket
SC503	QSOCZA161WJZZ	AG		J	Socket
SC504	QSOCNA715WJZZ	AL		J	Socket
SC1501	QSOCZA072WJZZQ	AH		J	Socket
SC1502	QSOCZA171WJZZY	AF		J	Socket
SC1503	QSOCZA171WJZZY	AF		J	Socket
TH2001	VHHM1103J03-1Y	AC		J	Thermistor
TU1101	RTUDAA019WJQZ	AZ		J	Tuner
VA501	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA502	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA503	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA506	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA507	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA508	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA509	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA510	RH-VXA005WJZZY	AA		J	Varistor AVR-M1005C270MTABBG
VA3301	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
VA3302	RH-VXA074WJZZY	AB		J	Varistor AVRL101A1R1NTB
X2001	RCRSC0032TAZZY	AG		J	Crystal
X2002	RFILZA023WJQZY	AD		J	Crystal Filter
X3302	RCRSCA101WJZZY	AG		J	Crystal
X4401	RCRSCA101WJZZY	AG		J	Crystal
N	PCOVZA132WJKA		N	J	Cover

△

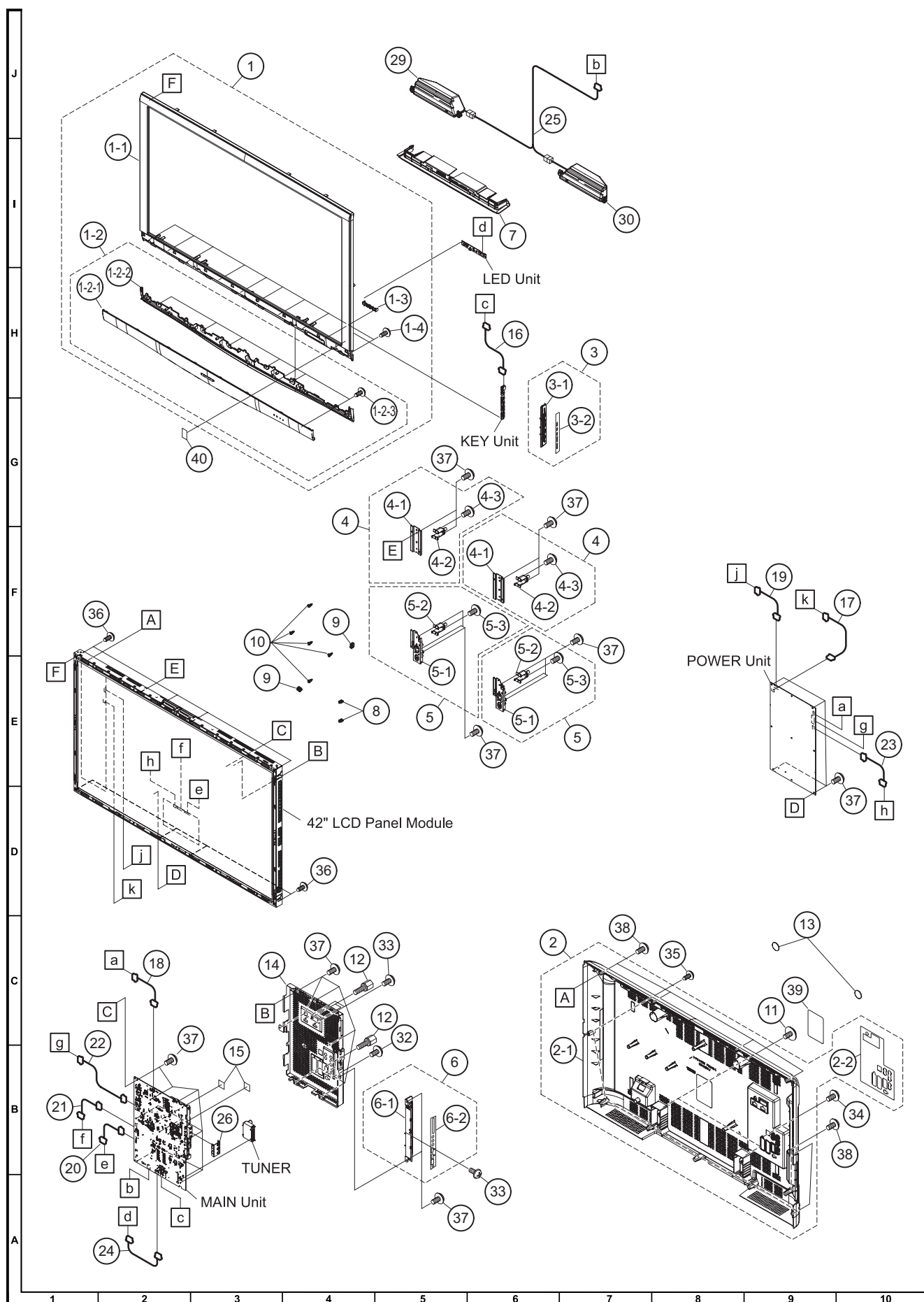
**[6] CABINET PARTS (LC-32DH77E/RU/S)**

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[6] CABINET PARTS (LC-32DH77E/RU/S)</b>					
1	CCABAC191WJ04			P	Front Cabinet Ass'y
1-1	Not Available	-	N	-	Front Cabinet
1-2	Not Available	-	N	-	Bottom Dec-A Ass'y
1-2-1	Not Available	-	N	-	Bottom Dec-A
1-3	Not Available	-	N	-	Bottom Dec-B Ass'y
1-3-1	Not Available	-	N	-	Bottom Dec-B
1-3-2	Not Available	-	N	-	Shine Trim
1-4	Not Available	-	N	-	LED Decoration
1-5	XEBS930P10000	AA		J	Screws, x9 (Front Dec.)
2	CCABBB390WJ01	BL		P	Back Cabinet Ass'y
2-1	Not Available	-	N	-	Back Cabinet
2-2	Not Available	-	N	-	Terminal Label
2-3	Not Available	-		-	VESA Angle, x4
2-4	XEBS930P08000	AA		J	Screws, x4 (VESA Holder)
3	CCOVAD195WJ01	AU		P	Control Cover Ass'y
3-1	Not Available	-	N	-	Control Cover
3-2	Not Available	-	N	-	Control Label
3-3	Not Available	-	N	-	SIDE AV Label
4	GCOVAD184WJ1A	AK		P	Bottom Cover
6	LANGKB569WJFW	AC		P	LCD Angle A
7	LANGKB570WJFW	AC		P	LCD Angle B
8	LANGKB597WJFW	AL		P	Panel Support Angle, x2
9	LANGKB970WJFW	AM		P	Stand Angle
10	LHLDWA143WJKZ	AC		J	Wire Holder (Cable)
11	LHLDFA062WJKZ			J	Wire Holder (Power PWB)
12	LHLDZB300WJ1A	AF		P	LCD Holder A
13	LHLDZB301WJ1A	AF		P	LCD Holder B
14	LX-WZA053WJZZ	AN		P	Washer (Power)
15	NSFTZA237WJFN	AC		J	Screw, x4 (D-Sub)
16	PSLDMB475WJFW	AN		P	Full Shield
17	PSLDMB516WJN0	AH		P	T-CON Shield
18	PSPA ZB313WJKZ	AC		J	Spacer (TCON)
19	PSPA ZB864WJKZ	AG		J	Spacer
20	PSPA ZC237WJKZ	AH	N	P	Cooling Sheet, x2
21	PSPA ZC312WJKZ			P	Cooling Sheet, x2
22	QC NW-H330WJQZ	AH		P	Connecting Cord (LB)
23	QC NW-J286WJQZ	AM		P	Connecting Cord (PD)
24	QC NW-H844WJQZ	AK		P	Connecting Cord (RA)
25	QC NW-J550WJPZ	AH		P	Connecting Cord (SP)
26	QC NW-H846WJQZ	AL		P	Connecting Cord (LP)
27	QC NW-H847WJQZ	AZ		P	Connecting Cord (LW)
28	RCORF0103CEZZ	AK		J	Core (SP Wire)
29	RCORFA023WJZZ	AK		J	Core
30	RSP-ZA421WJZZ	AS		P	Speaker (L)
31	RSP-ZA422WJZZ	AS		P	Speaker (R)
33	XBBS730P04000	AA		J	Screw (TUNER/SHIELD)
34	XBPS830P06000	AA		J	Screws, x3 (HDMI)
35	XEBS930P08000	AA		J	Screw (21PIN)
36	XEBS940P16000	AB		J	Screws, x10 (CAB-B)
37	XEBSN40P10000	AB		J	Screws, x4 (ANG-CAB-A)
38	XHPS730P06WS0	AA		J	Screws, x35 (ANG/PWB )
39	XHPS730P10WS0	AA		P	Screw (MAIN PWB)
40	TLABNC117WJZZ	AB		P	Model Label
41	TLABZB406WJZZ	AC		P	EU ECO Label (LC-32DH77E/S)

[7] LCD PANEL MODULE ASSEMBLY (LC-32DH77E/RU/S)



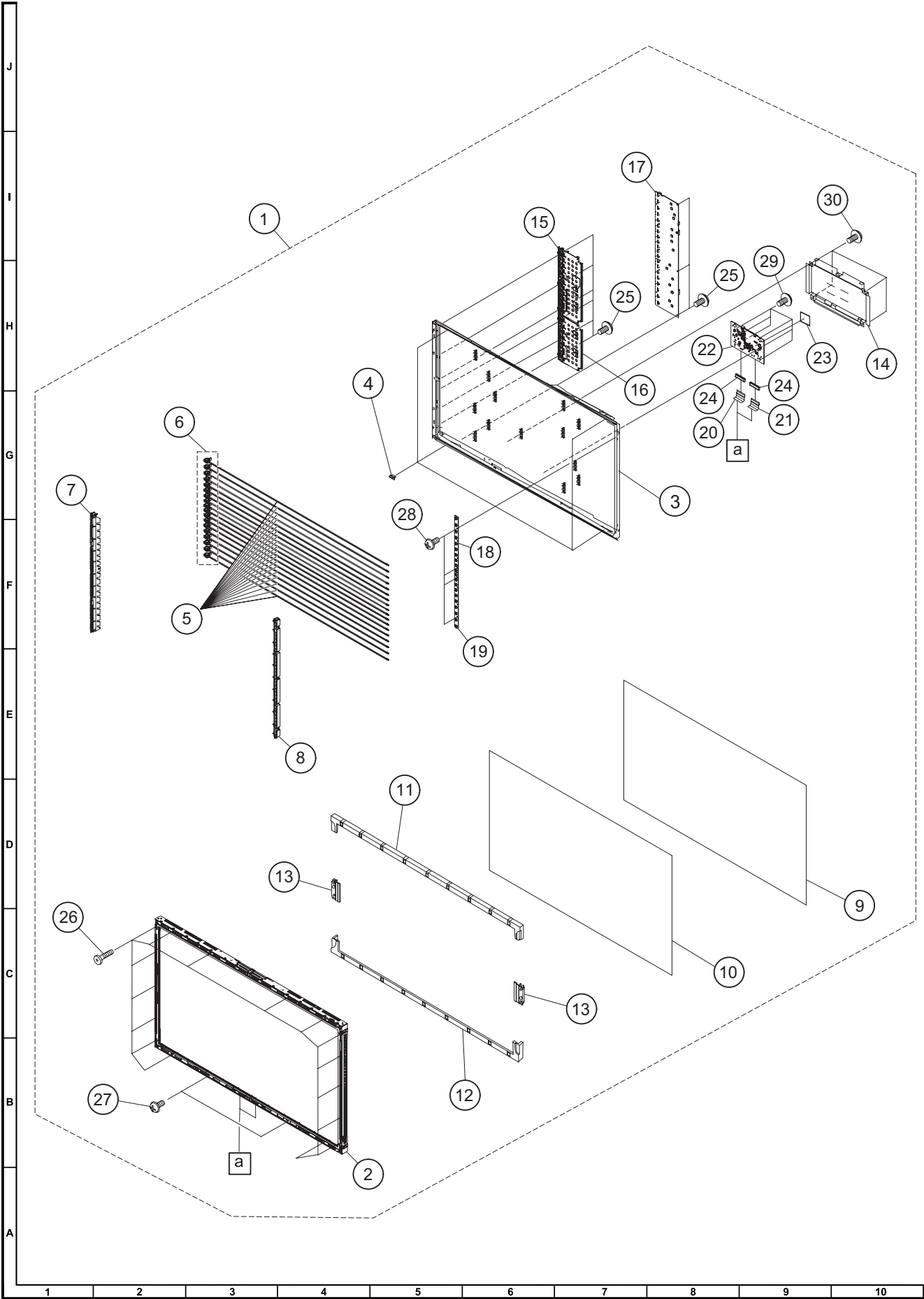
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[7] LCD PANEL MODULE ASSEMBLY (LC-32DH77E/RU/S)</b>					
1	R1LK315D3LW40Y		N	P	32" LCD Panel Module
2	CANGK4055TP0D	AP		J	Bezel Ass'y (Top)
3	CANGK4055TP0E	AT		J	Bezel Ass'y (Bottom)
4	CANGKC106WJ01	AF		J	Gate Protector Ass'y, x2
5	CHLDZB360WJ01	AP		J	Panel Chassis Ass'y (Top)
6	CHLDZB361WJ01	AP		J	Panel Chassis Ass'y (Bottom)
7	PSHEPA864WJZZ	AU		J	Lens Sheet
8	PSHEPA865WJZZ	AQ		J	Diffusion Sheet
9	PCOVUA161WJZZ	AV		J	Diffusion Plate
10	CHLDZB362WJ01	AN		J	Lamp Holder (L)
11	CHLDZB363WJ01	AP		J	Lamp Holder (R)
12	RLMP-0663TPZZ	AS		J	Lamp Unit, x14
13	QSOCFA003WJZZ	AD		J	Lamp Socket, x14
14	RUNTK3839TPZZ	AM		J	GND-PWB
15	RUNTK3840TPZZ	AM		J	GND-PWB
16	Not Available	-		-	Back Light Chassis Ass'y
17	PCOVWA053WJKZ			J	SJ Connector Cover (Top)
18	PCOVWA054WJKZ			J	SJ Connector Cover (Bottom)
19	CPWBX4151TPXF			J	LCD Control PWB Unit
20	QPWBM0792TPZZ	AL		J	CS FPC
21	QPWBM0793TPZZ	AL		J	CS FPC
22	RCORFA061WJZZ	AG		J	Ferrite Core, x4
23	LX-EZA028WJF9	AB		J	Screw, x10 (Bezel-Panel Chassis, x8/Gate Protector, x2)
24	XHPS730P04WS0	AA		J	Screw, x15 (SJ COVER, x5/C-PWB, x6/C-PWB Cover, x4)
25	XHPS730P08KS0	AB		J	Screw, x4 (M3X8 GND PWB)
26	LX-HZA039WJF7	AB		J	Screw, x6 (BL Chassis-Bezel)
27	LX-HZA047WJF7	AB		J	Screw, x4 (BL Chassis-Bezel)
28	LANGKB978WJFW	AH		J	LCD Control PWB Attachment Angle

**[8] CABINET PARTS (LC-42DH77E/RU/S)**

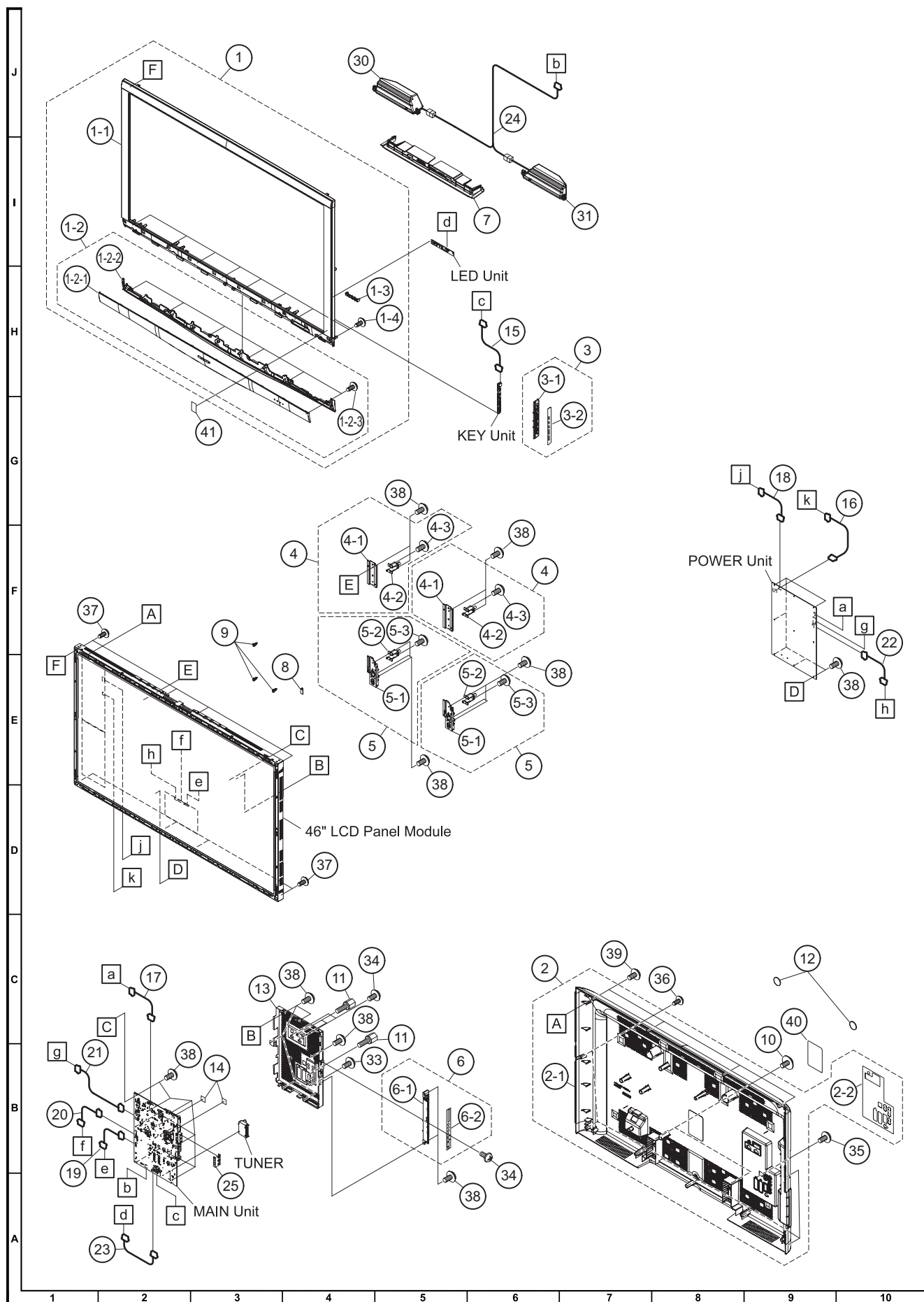


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[8] CABINET PARTS (LC-42DH77E/RU/S)</b>					
1	CCABAC219WJ03		N	P	Front Cabinet Ass'y
1-1	Not Available	-	N	-	Front Cabinet
1-2	Not Available	-	N	-	Bottom Dec Ass'y
1-2-1	Not Available	-	N	-	Bottom Dec (A) Ass'y
1-2-2	Not Available	-	N	-	Bottom Dec (B) Ass'y
1-2-3	XEBSN40P10000	AB		J	Screw, x6 (DEC-A/B FIX)
1-3	Not Available	-		-	LED Decoration
1-4	XEBSN40P10000	AB		J	Screw, x9 (DEC ASSY FIX)
2	CCABBB425WJ01	BM	N	P	Back Cabinet Ass'y
2-1	Not Available	-	N	-	Back Cabinet
2-2	Not Available	-	N	-	Terminal Label
3	CCOVAC952WJ04	AL		P	Control Cover Ass'y
3-1	Not Available	-	N	-	Control Cover
3-2	Not Available	-	N	-	Control Label
4	CANGKC098WJ01	AH	N	P	Vesa Angle Top Ass'y, x2
4-1	Not Available	-	N	-	Base Angle Top
4-2	Not Available	-	N	-	Vesa Angle
4-3	XHPS730P06WS0	AA		J	Screw
5	CANGKC099WJ01	AN	N	P	Vesa Angle Bottom Ass'y, x2
5-1	Not Available	-	N	-	Base Angle Bottom
5-2	Not Available	-	N	-	Vesa Angle
5-3	XHPS730P06WS0	AA		J	Screw
6	CCOVAD246WJ02	AQ	N	P	Side AV Cover Ass'y
6-1	Not Available	-	N	-	Side AV Cover
6-2	Not Available	-	N	-	Side AV Label
7	GCOVAD248WJ1A	AK		P	Bottom Cover
8	LHLDWA048WJKZ	AB		J	Wire Holder, x2 (SP, L)
9	LHLDWA143WJKZ	AC		J	Wire Holder, x2 (CABLE)
10	LHLDZA934WJKZ	AB		J	Power PWB Holder, x5
11	LX-BZA170WJF9	AC		P	Screw, x2 (Vesa Boss)
12	NSFTZA237WJFN	AC		J	Shaft, x4 (D-SUB)
13	PSHEPA543WJZZ	AA	N	P	Sheet For Vesa, x2
14	PSLDMB539WJFW	AP	N	P	Full Shield
15	PSPAZC237WJKZ	AH	N	P	Cooling Sheet, x2
16	QCNW-H951WJQZ	AF	N	P	Connecting Cord (KM)
17	QCNW-H852WJQZ	AE	N	P	Connecting Cord (LA)
18	QCNW-H853WJQZ	AG	N	P	Connecting Cord (LB1)
19	QCNW-H854WJQZ	AE	N	P	Connecting Cord (LB2)
20	QCNW-H856WJQZ	AF	N	P	Connecting Cord (LP)
21	QCNW-H857WJQZ	BA	N	P	Connecting Cord (LW)
22	QCNW-H858WJQZ	AN	N	P	Connecting Cord (PD)
23	QCNW-H950WJQZ	AE	N	P	Connecting Cord (PL)
24	QCNW-H848WJQZ	AH		P	Connecting Cord (RA)
25	QCNW-J551WJPZ	AK	N	P	Connecting Cord (SP)
26	QEARPA339WJFW	AB	N	P	Earth Plate
29	RSP-ZA421WJZZ	AS	N	P	Speaker (L)
30	RSP-ZA422WJZZ	AS	N	P	Speaker (R)
32	XBBS730P04000	AA		J	Screw (TUN/SHIELD)
33	XBPS830P06000	AA		J	Screw, x3 (HDMI)
34	XEBS930P08000	AA		J	Screw (21PIN)
35	XEBS940P16000	AB		J	Screw, x7 (CAB-B FIX)
36	XEBSN40P10000	AB		J	Screw, x8 (LCD-PANEL)
37	XHPS730P06WS0	AA		J	Screw, x30 (ANG/PWB FIX)
38	XHPS730P10WS0	AA		P	Screw, x5 (CAB-B)
39	TLABNC117WJZZ	AB		P	Model Label
40	TLABZB406WJZZ	AC		P	EU ECO Label (LC-42DH77E/S)

[9] LCD PANEL MODULE ASSEMBLY (LC-42DH77E/RU/S)

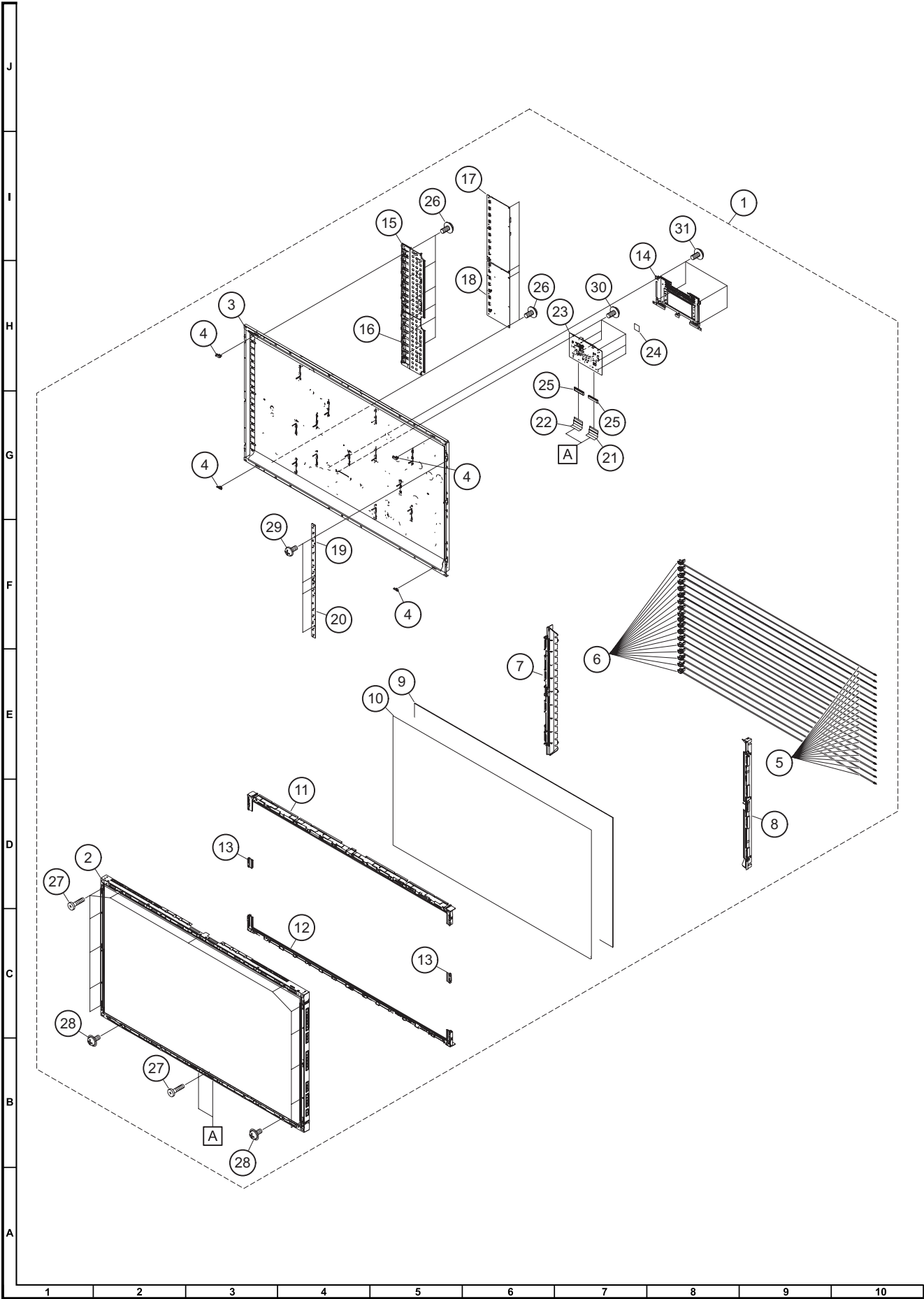


NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[9] LCD PANEL MODULE ASSEMBLY (LC-42DH77E/RU/S)</b>					
1	R1LK420D3LW80Y	DN	N	P	42" LCD Panel Module
2	Not Available	-		-	BEZEL Ass'y
3	CCHSMA552WJ01			J	Back Light Chassis Ass'y
4	LHLDZA963WJKZ	AB		J	Holder, x4
5	RLMPLA039WJN1	AQ		J	Lamp, x18
6	QSOCFA005WJZZ	AD		J	Socket, x18
7	CHLDZB347WJ01	AT		J	Lamp Holder Unit
8	CHLDZB348WJ01	AT		J	Lamp Holder Unit
9	PCOVUA141WJZZ	AZ		J	Diffusion Plate
10	PSHEPA872WJZZ	AX		J	Lens Sheet
11	CHLDZB335WJ01			J	Panel Chassis unit
12	CHLDZB337WJ01			J	Panel Chassis unit
13	CHLDZB381WJ01			J	Sheet Holder Unit, x2
14	CSLDMB528WJ01			J	LCD Control Unit Cover
15	PCOVWA036WJKZ	AM		J	Cover
16	PCOVWA037WJKZ	AL		J	Cover
17	RUNTKA534WJZZ	BP		J	INVERTER Unit
18	RUNTKA536WJZZ	AP		J	GND-PWB
19	RUNTKA537WJZZ	AP		J	GND-PWB
20	QPWBM0567TPZZ	AG		J	SC-FPC
21	QPWBM0570TPZZ	AG		J	SC-FPC
22	CPWBX4023TPXE	BW		J	LCD Control Unit
23	PSHEP2941TPZZ			J	Heat Radiation Sheet (for LCD Control unit)
24	RCORFA061WJZZ	AG		J	Ferrite Core, x2
25	XHPS830P06WS0	AA		J	Screw, x9 (for fixing Inverter Unit x3, for fixing Cover x6)
26	LX-HZA039WJF7	AB		J	Screw, x16 (for fixing Bezel Ass'y)
27	LX-HZA047WJF7	AB		J	Screw, x2 (for fixing Bezel Ass'y)
28	LX-HZA046WJF7	AB		J	Screw, x4 (for fixing GND-PWB)
29	LX-HZA045WJF7	AB		J	Screw, x6 (for fixing LCD Control unit)
30	XHPS730P06WS0	AA		J	Screw, x4 (for fixing LCD Control unit Cover)

**[10] CABINET PARTS (LC-46DH77E/RU/S)**

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[10] CABINET PARTS (LC-46DH77E/RU/S)</b>					
1	CCABAC209WJ05		N	S	Front Cabinet Ass'y
1-1	Not Available	-	N	-	Front Cabinet
1-2	Not Available	-	N	-	Bottom Dec Ass'y
1-2-1	Not Available	-	N	-	Bottom Dec (A) Ass'y
1-2-2	Not Available	-	N	-	Bottom Dec (B) Ass'y
1-2-3	XEBSN40P10000	AB		J	Screw, x6 (DEC-A/B FIX)
1-3	Not Available	-	N	-	LED Decoration
1-4	XEBSN40P10000	AB		J	Screw, x8 (CAB-A - DEC FIX)
2	CCABBB417WJ03	BP	N	S	Back Cabinet Ass'y
2-1	Not Available	-	N	-	Back Cabinet
2-2	HINDPD259WJSA	AM	N	S	Terminal Label
3	CCOVAC952WJ04	AL		P	Control Cover Ass'y
3-1	Not Available	-	N	-	Control Cover
3-2	HINDPC965WJSA	AE	N	S	Control Label
4	CANGKC098WJ01	AH	N	S	Vesa Angle Top Ass'y, x2
4-1	Not Available	-	N	-	Base Angle Top
4-2	Not Available	-	N	-	Vesa Angle
4-3	XHPS730P06WS0	AA		J	Screw
5	CANGKC099WJ01	AN	N	S	Vesa Angle Bottom Ass'y, x2
5-1	Not Available	-	N	-	Base Angle Bottom
5-2	Not Available	-	N	-	Vesa Angle
5-3	XHPS730P06WS0	AA		J	Screw
6	CCOVAD246WJ02	AM	N	S	Side AV Cover Ass'y
6-1	Not Available	-	N	-	Side AV Cover
6-2	HINDPD186WJSA	AD		S	Side AV Label
7	GCOVAD248WJ1A	AP	N	S	Bottom Cover
8	LHLDWA133WJKZ	AC		J	Wire Holder (CABLE)
9	LHLDZA934WJKZ	AB		J	Power PWB Holder, x3
10	LX-BZA170WJF9	AB		S	Screw, x2 (CAB-B)
11	NSFTZA237WJFN	AC		J	Shaft, x4 (D-SUB)
12	PSHEPA543WJZZ	AA		S	Diffusion Sheet, x2
13	PSLDMB539WJFW	AQ	N	S	Full Shield
14	PSPAZC237WJKZ	AH	N	S	Cooling Sheet, x2
15	QCNW-H324WJQZ	AF		S	Connecting Cord (KM)
16	QCNW-H339WJQZ	AE		S	Connecting Cord (LA)
17	QCNW-H332WJQZ	AG		S	Connecting Cord (LB1)
18	QCNW-H764WJQZ	AE		S	Connecting Cord (LB2)
19	QCNW-H753WJQZ	AF		S	Connecting Cord (LP)
20	QCNW-H755WJQZ	BA		S	Connecting Cord (LW)
21	QCNW-H336WJQZ	AK		S	Connecting Cord (PD)
22	QCNW-H697WJQZ	AE		S	Connecting Cord (PL)
23	QCNW-H956WJQZ	AG	N	S	Connecting Cord (RA)
24	QCNW-J552WJPZ	AK	N	P	Connecting Cord (SP)
25	QEARPA339WJFW	AC	N	S	Earth Plate
30	RSP-ZA421WJZZ	AS	N	P	Speaker (L)
31	RSP-ZA422WJZZ	AS	N	P	Speaker (R)
33	XBBS730P04000	AA		J	Screw (TUN/SHIELD)
34	XBPS830P06000	AA		J	Screw, x3 (HDMI)
35	XEBS930P08000	AA		J	Screw (21PIN)
36	XEBS940P16000	AB		J	Screw, x7 (CAB-B FIX)
37	XEBSN40P10000	AB		J	Screw, x8 (LCD-HLD FIX)
38	XHPS730P06WS0	AA		J	Screw, x32 (PWB ETC)
39	XHPS730P10WS0	AA		S	Screw, x4 (CAB-B)
40	TLABNC117WJZZ	AC		S	Model Label
41	TLABZB406WJZZ	AC		S	EU ECO Label S (LC-46DH77E/S)

[11] LCD PANEL MODULE ASSEMBLY (LC-46DH77E/RU/S)



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART DELIVERY	DESCRIPTION
<b>[11] LCD PANEL MODULE ASSEMBLY (LC-46DH77E/RU/S)</b>					
1	R1LK460D3LW80Y	DX	N	P	46" LCD Panel Module
2	Not Available	-		-	BEZEL Ass'y
3	CCHSMA553WJ01			J	Back Light Chassis Ass'y
4	LHLDZA963WJKZ	AB		J	Holder, x4
5	RLMPLA038WJN1	AR		J	Lamp, x18
6	QSOCPA002WJZZ	AD		J	Socket, x18
7	CHLDZB349WJ01	AU		J	Lamp Holder Unit
8	CHLDZB350WJ01	AU		J	Lamp Holder Unit
9	PCOVUA113WJZZ	BA		J	Diffusion Plate
10	PSHEPA873WJZZ	AX		J	Lens Sheet
11	CHLDZB383WJ01			J	Panel Chassis unit
12	CHLDZB385WJ01			J	Panel Chassis unit
13	CHLDZB382WJ01			J	Sheet Holder Unit, x2
14	CSLDMB528WJ01			J	LCD Control Unit Cover
15	PCOVWA038WJKZ	AM		J	Cover
16	PCOVWA039WJKZ	AM		J	Cover
17	RUNTKA538WJZZ	BF		J	INVERTER Unit
18	RUNTKA539WJZZ	BF		J	INVERTER Unit
19	RUNTKA540WJZZ	AP		J	GND-PWB
20	RUNTKA541WJZZ	AP		J	GND-PWB
21	QPWBM0782TPZZ	AG		J	FPC
22	QPWBM0783TPZZ	AG		J	FPC
23	CPWBX4151TPXA			J	LCD Control Unit
24	PSHEP2941TPZZ			J	Heat Radiation Sheet (for LCD Control unit)
25	RCORFA061WJZZ	AG		J	Ferrite Core, x2
26	XHPS830P06WS0	AA		J	Screw, x10 (for fixing Inverter Unit x4, for fixing Cover x6)
27	LX-HZA039WJF7	AB		J	Screw, x14 (for fixing Bezel Ass'y)
28	LX-HZA047WJF7	AB		J	Screw, x2 (for fixing Bezel Ass'y)
29	LX-HZA046WJF7	AB		J	Screw, x4 (for fixing GND-PWB)
30	LX-HZA045WJF7	AB		J	Screw, x6 (for fixing LCD Control unit)
31	XHPS730P06WS0	AA		J	Screw, x4 (for fixing LCD Control unit Cover)

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